Nokia Care Academy

Service Manual for L1 and L2

# Nokia X Dual SIM

RM-980, RM-981

## Key features

- Fastlane to Android™ apps
- 4.0" display with 800x480 pixel resolution
- Dual-core CPU
- Dual SIM
- 1500 mAh battery

Version 1.0

## Send feedback

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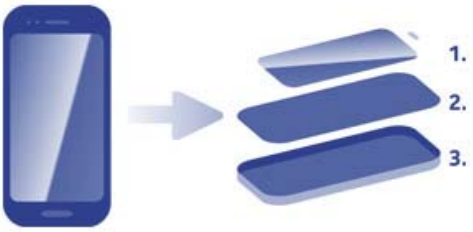
**CHECK THE REPAIR POLICY BEFORE PERFORMING ANY MECHANICAL REPAIR ON SERVICE LEVEL 1&2!**

## Exploded view

More

## Disassembly steps

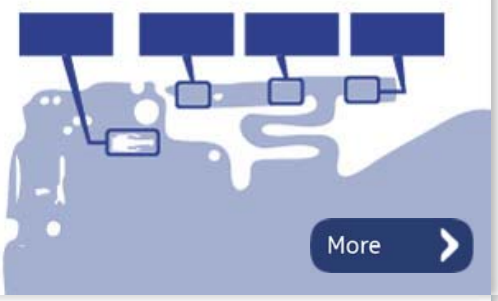



More

## Assembly hints

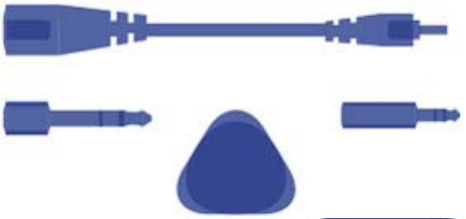
More

## Solder components



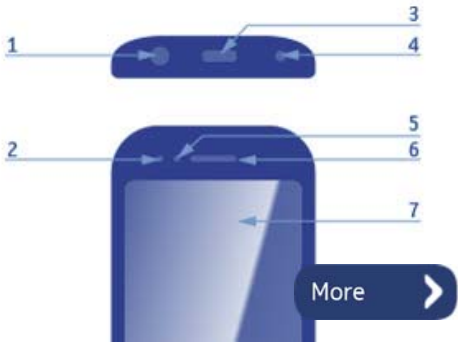
More

## Service devices



More

## Product controls and interfaces




More

## Service concept

More

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# Version history



| Version | Date | Description |
|---|---|---|
| 1.0 | 24.02.2014 | First published version |

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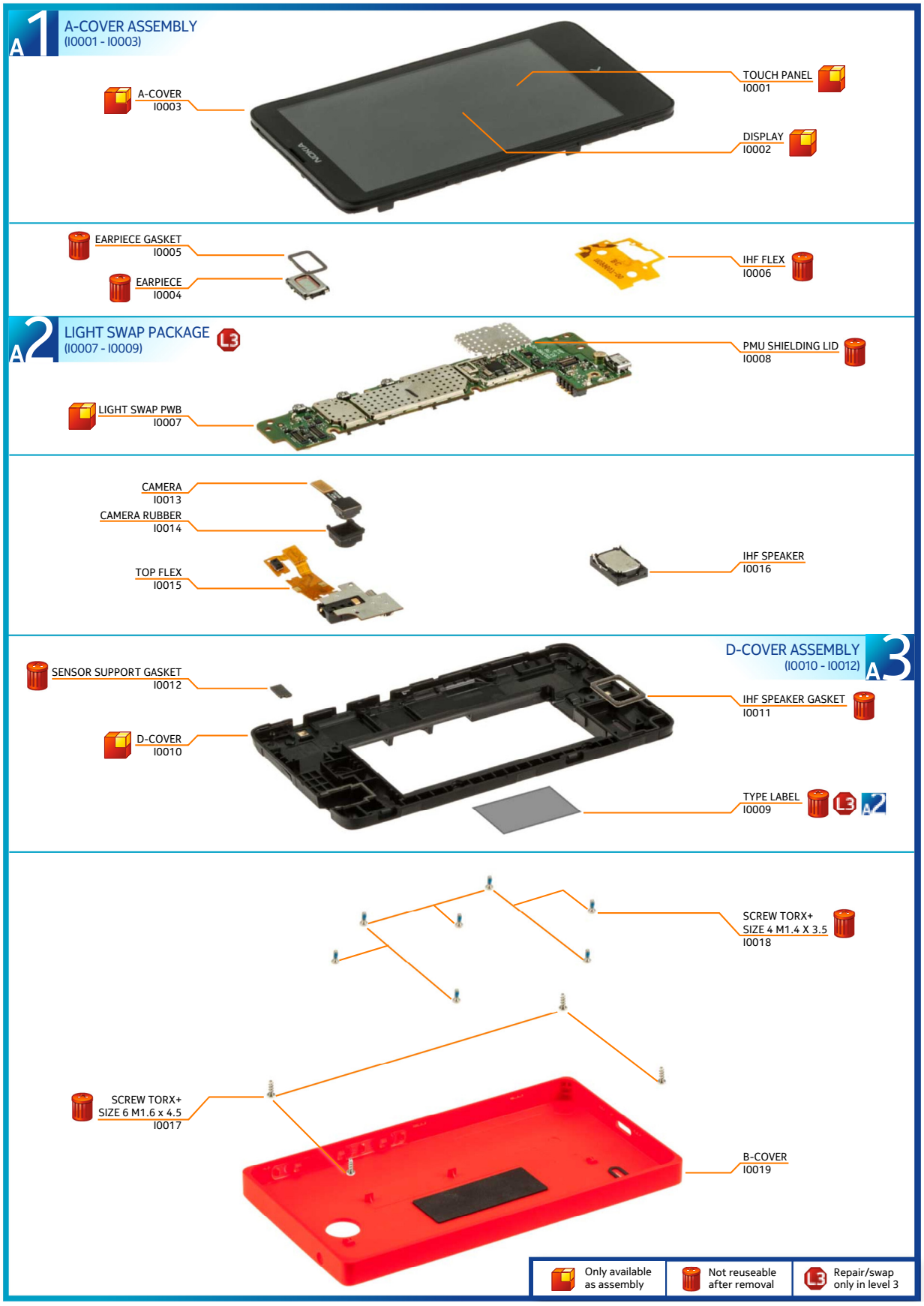
# Exploded view



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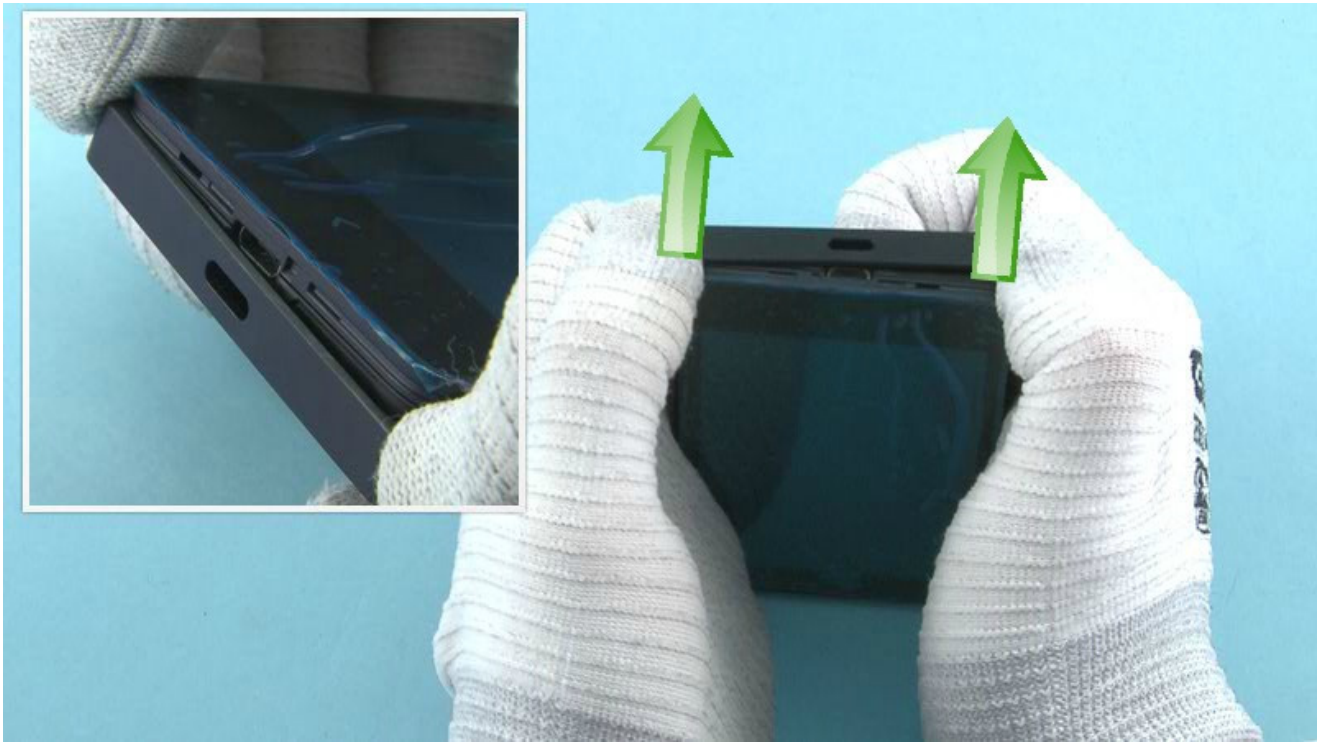
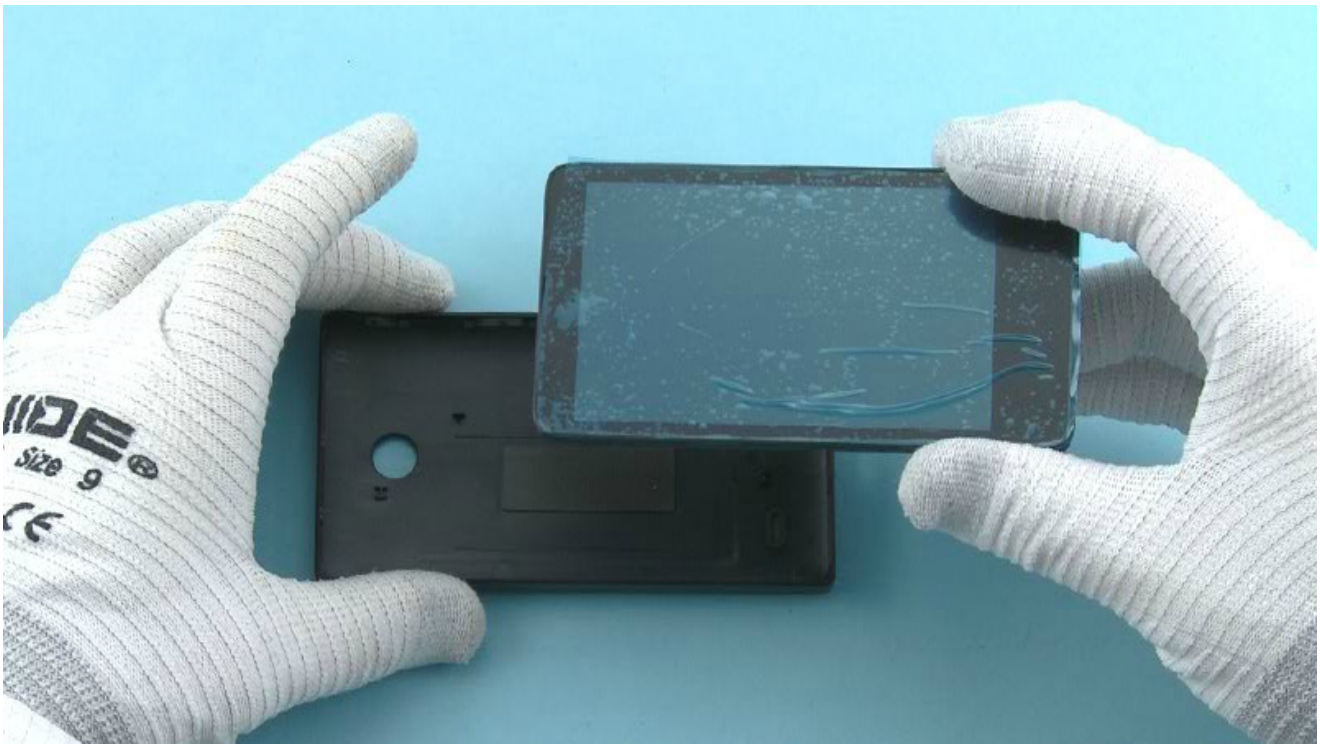
1) For disassembling you need the Nokia Standard toolkit version 2.

2) Protect the A-COVER with protective film.



3) Push from the bottom corners of the B-COVER as shown to release the B-COVER.




4) Remove the B-COVER.

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5) If there is battery inserted, remove it by using the shown finger notch.

6) Remove the battery

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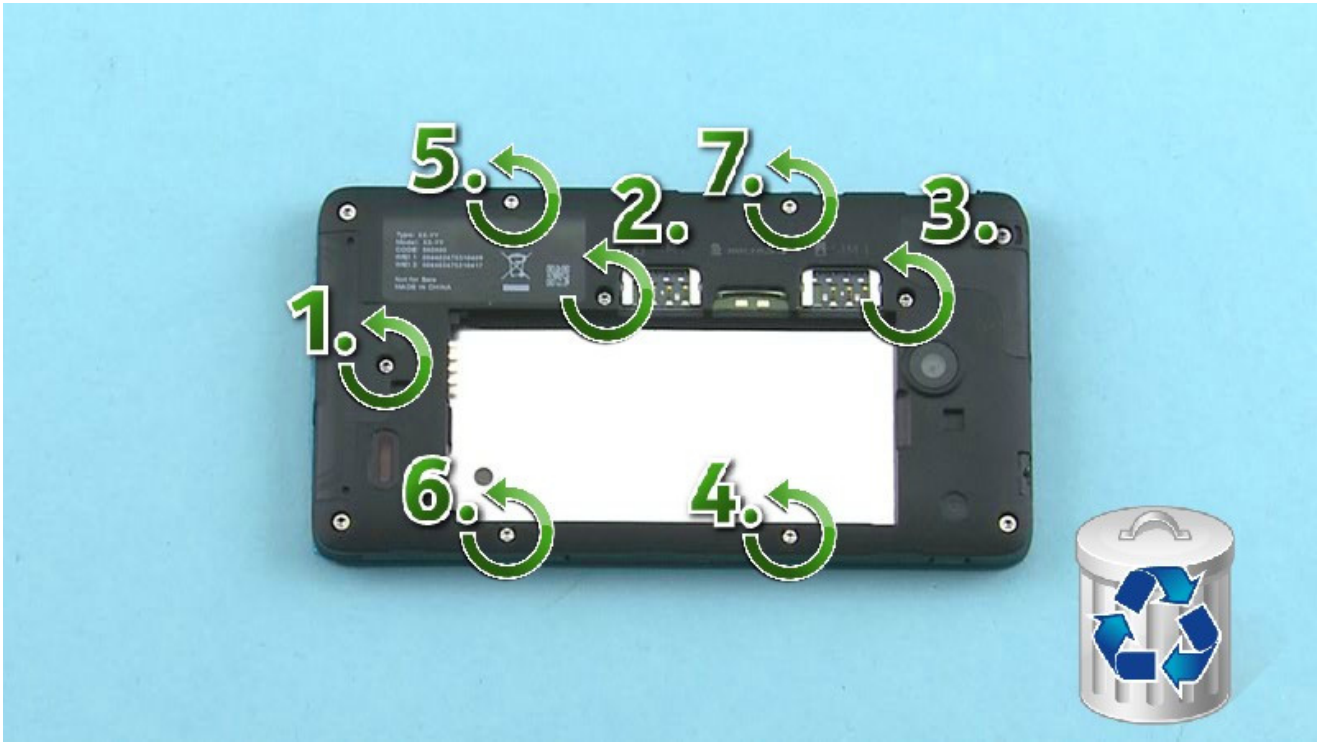
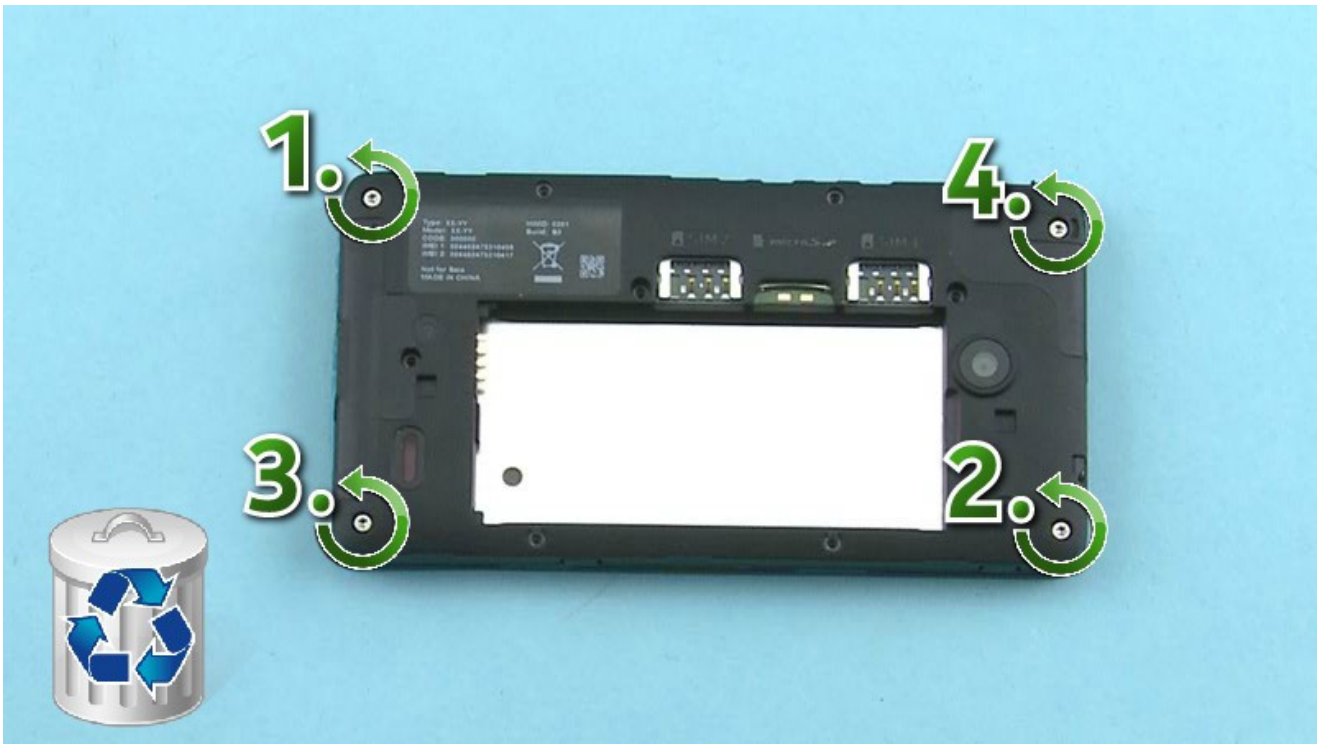



7) Unscrew the seven Torx+ size 4 screws in the order shown. Do not use them again. Discard them.




8) Unscrew the four Torx+ size 4 screws in the order shown. Do not use them again. Discard them.

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9) Use the SRT-6 to open the shown clip.

10) Open also the second clip on the same side of the device with the SRT-6.

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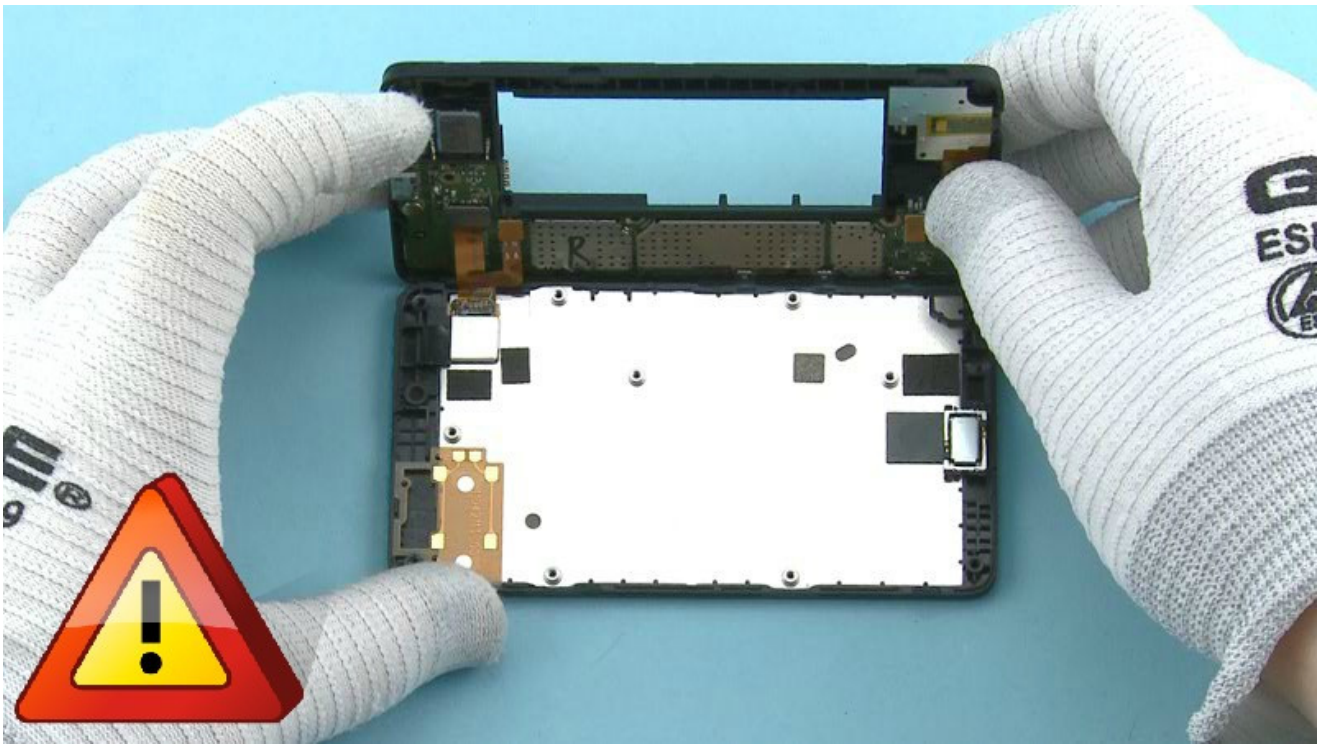
11) Open the clip on the opposite side with the SRT-6.



12) Turn the D-COVER over as shown.

Be careful not to break the flexes.

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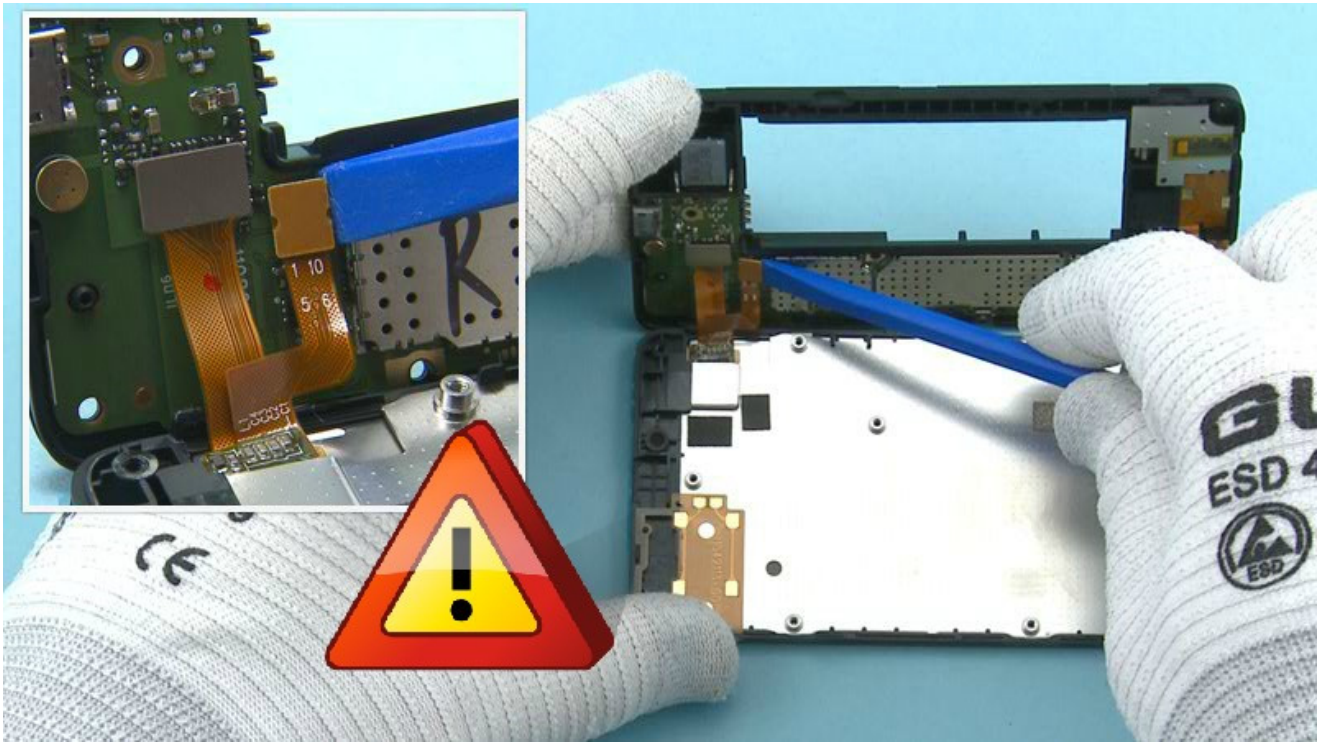
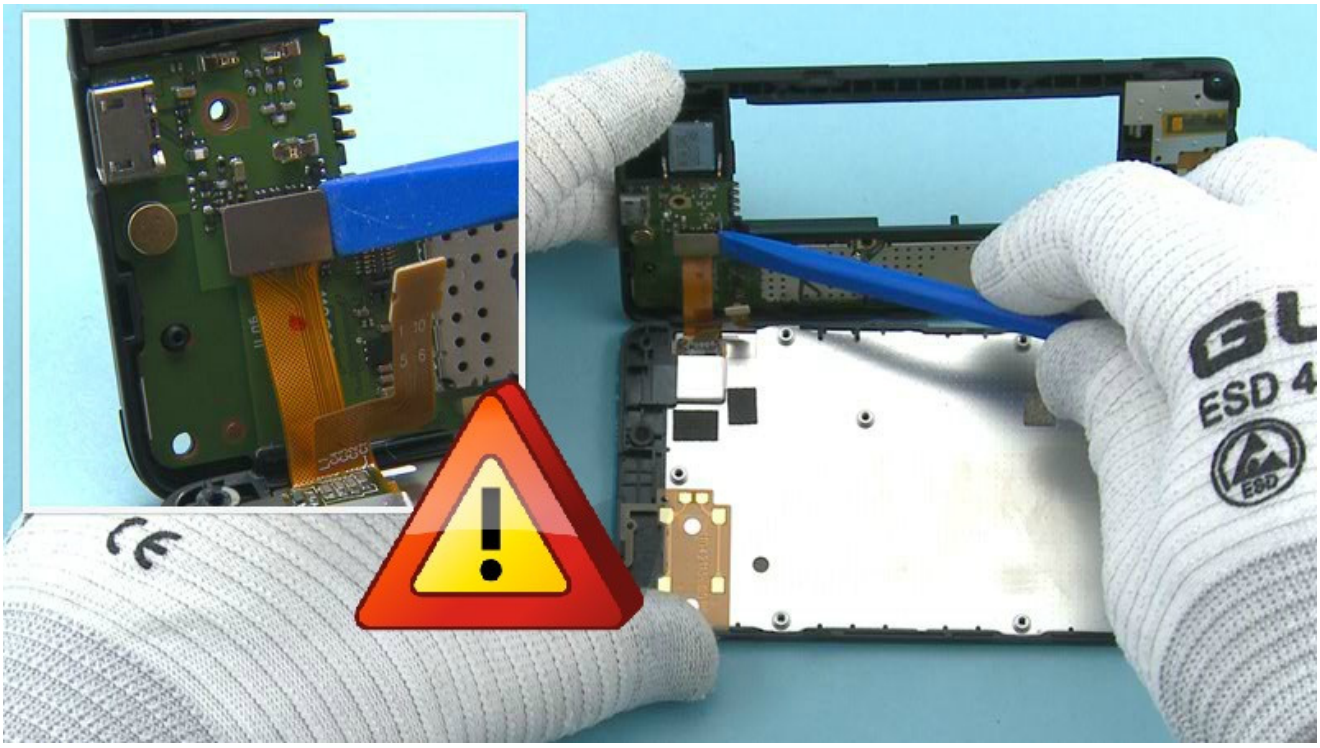


13) Open the TOUCH PANEL connector with the SS-93.

Be careful not to damage the connector or any components nearby.



14) Open the DISPLAY connector with the SS-93.

Be careful not to damage the connector or any components nearby.

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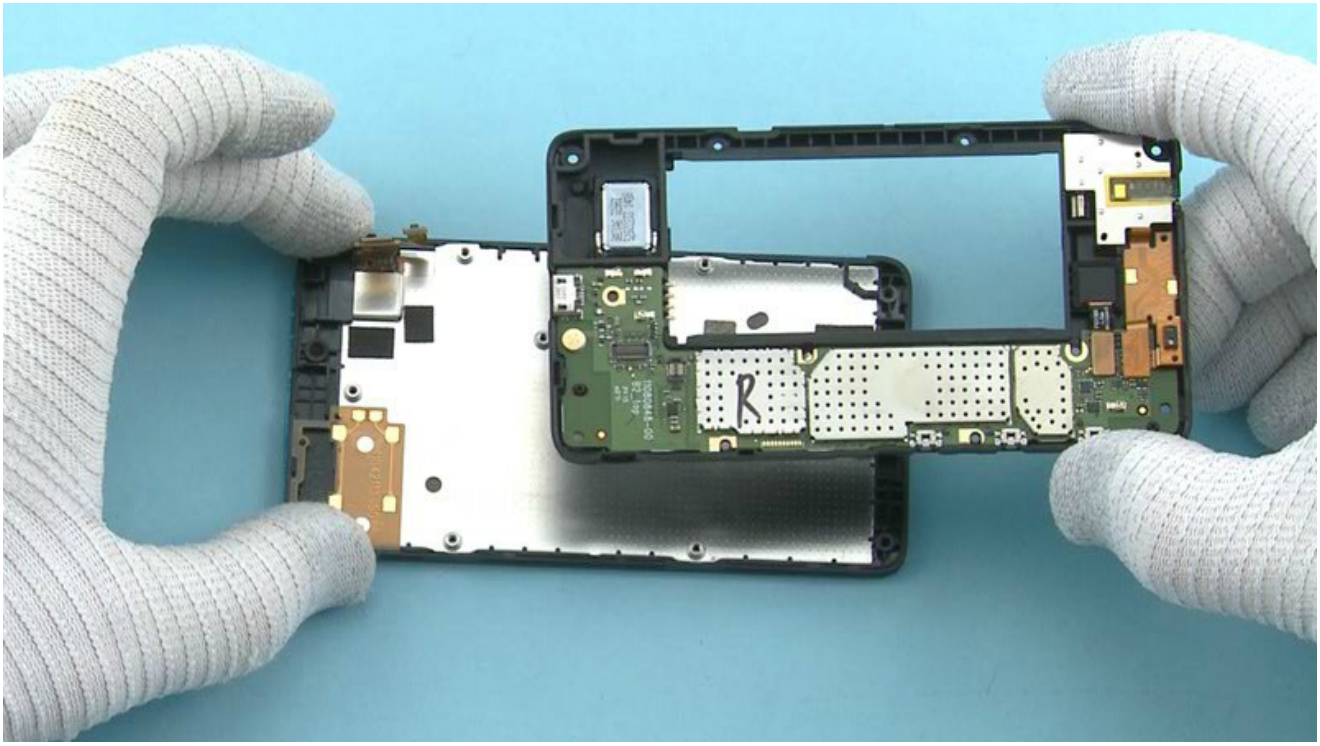
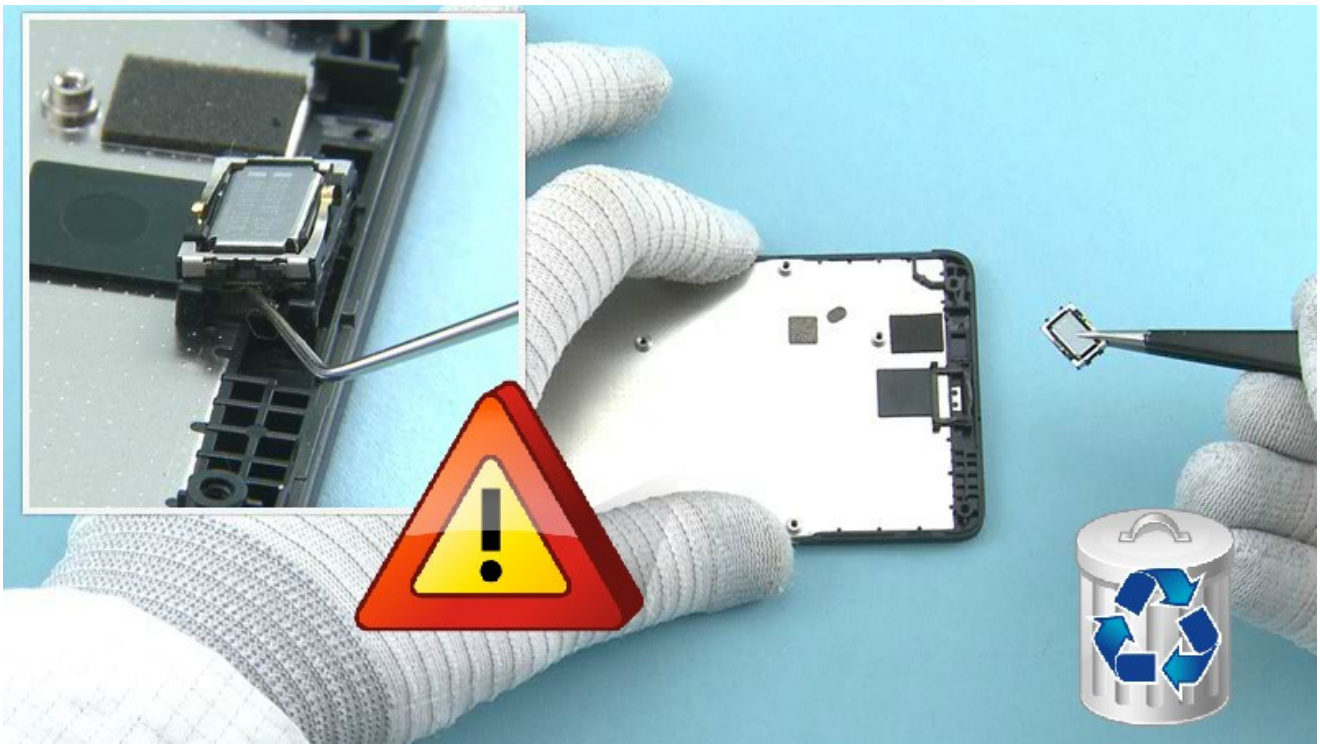


15) The A-COVER can now be separated.



16) Use the dental tool to release the EARPIECE. Remove and discard the EARPIECE.

Be careful not to injure yourself with the sharp end of the dental tool.

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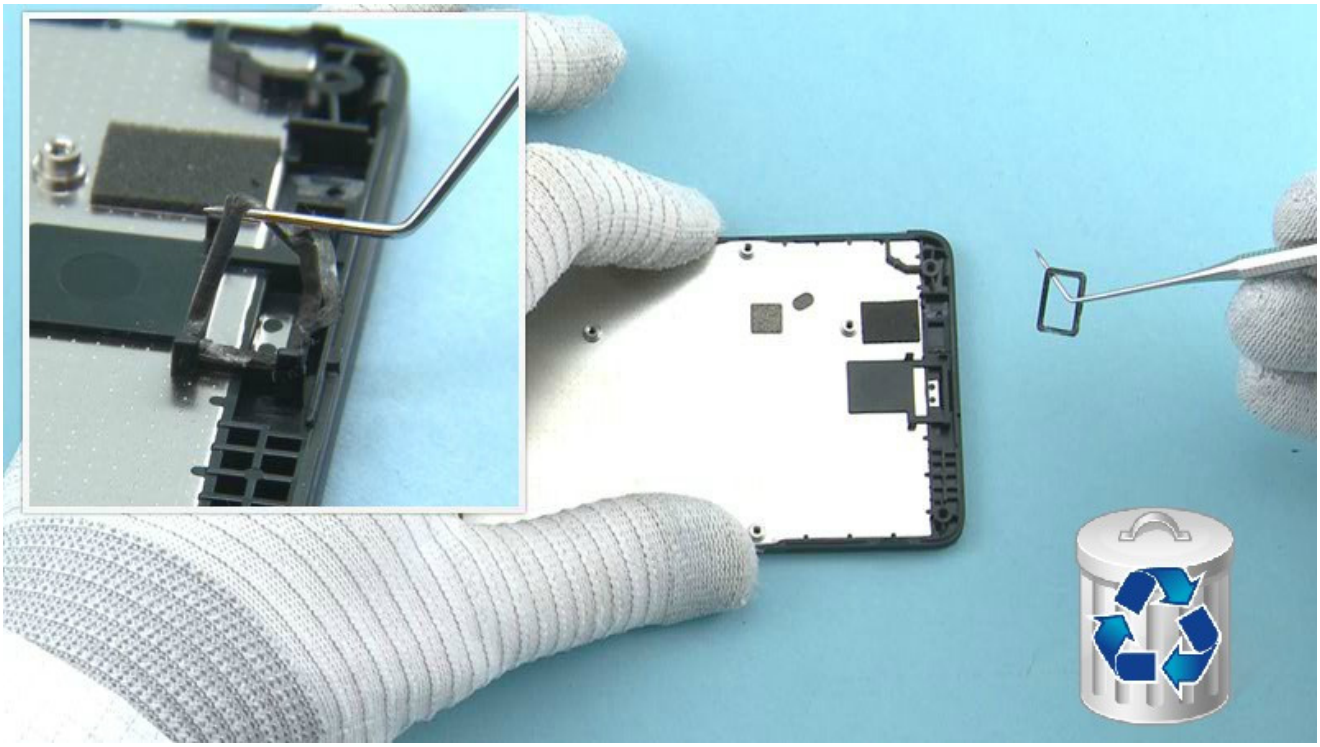
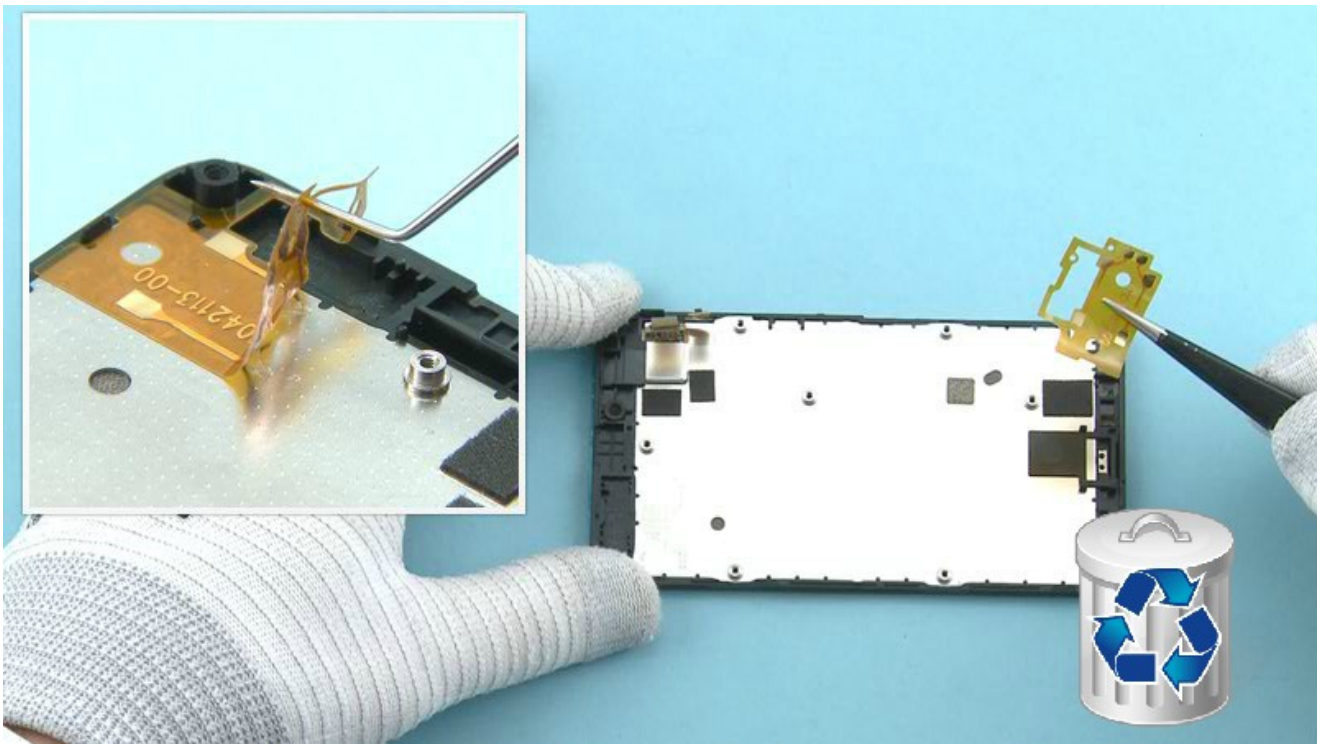


17) Remove and discard the EARPIECE GASKET.



18) Lift up the IHF FLEX with the dental tool and remove it with tweezers. Do not use it again. Discard it.

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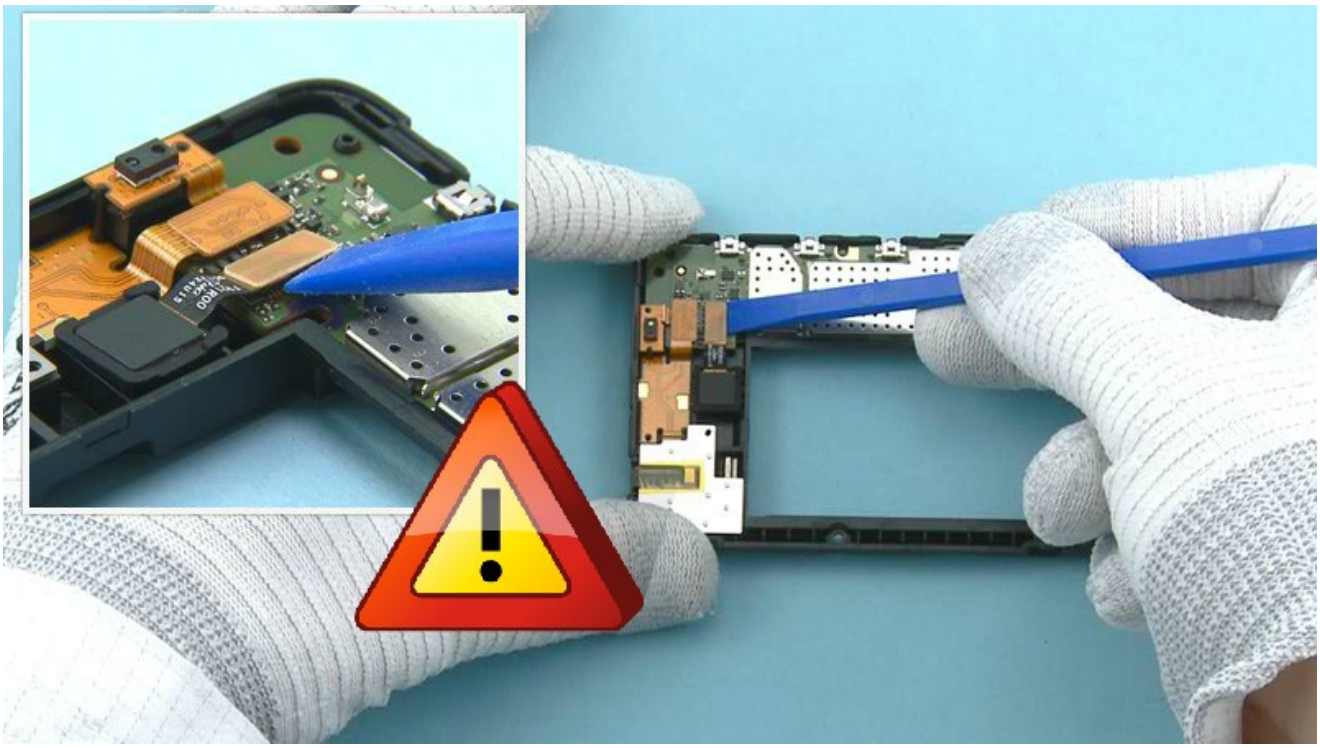
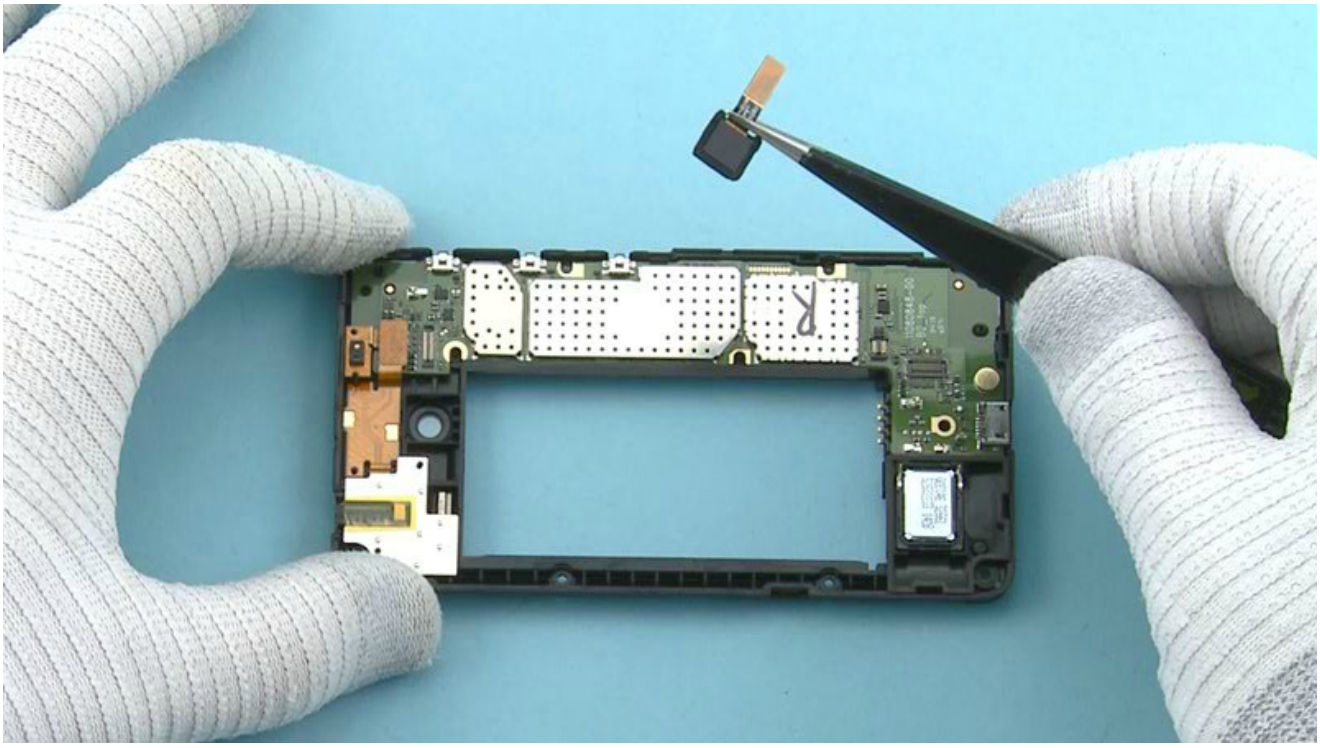


19) Open the CAMERA connector with the SS-93 from the shown side.

Be careful not to damage the connector or any components nearby.



20) Remove the CAMERA and the CAMERA RUBBER.

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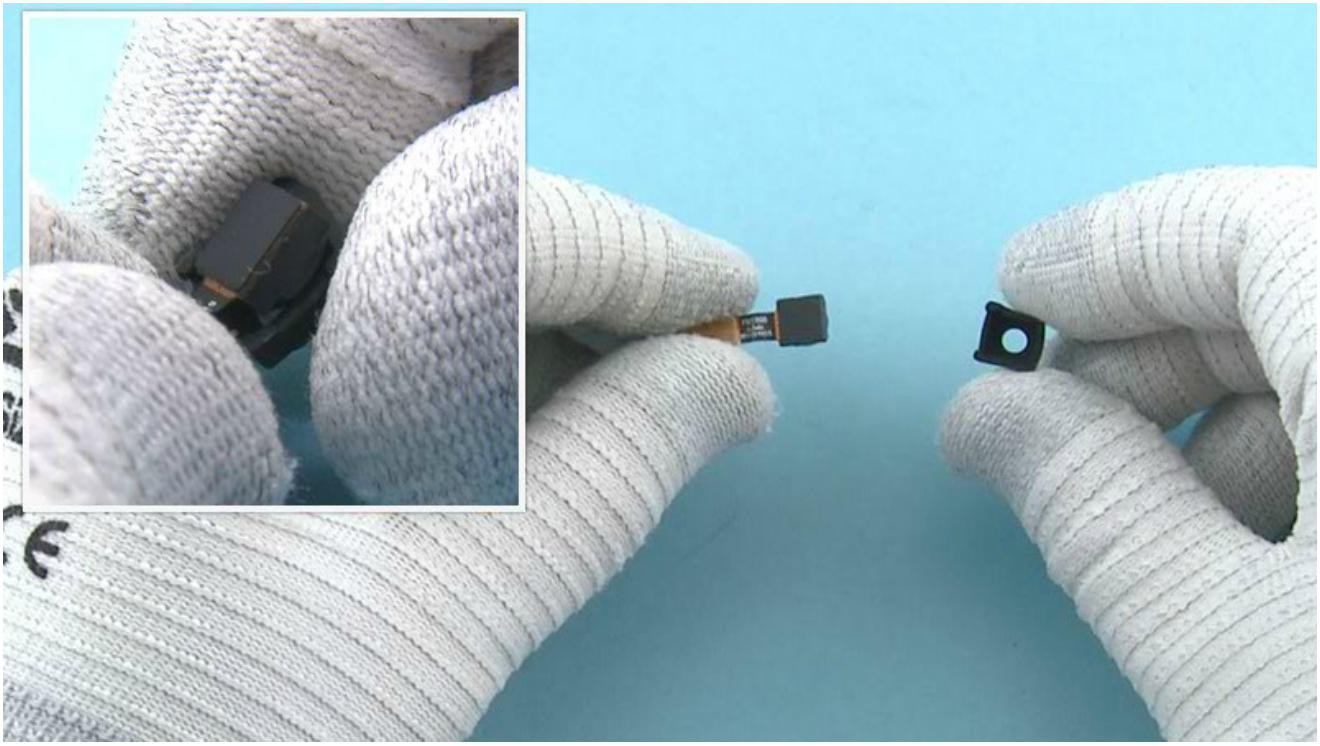
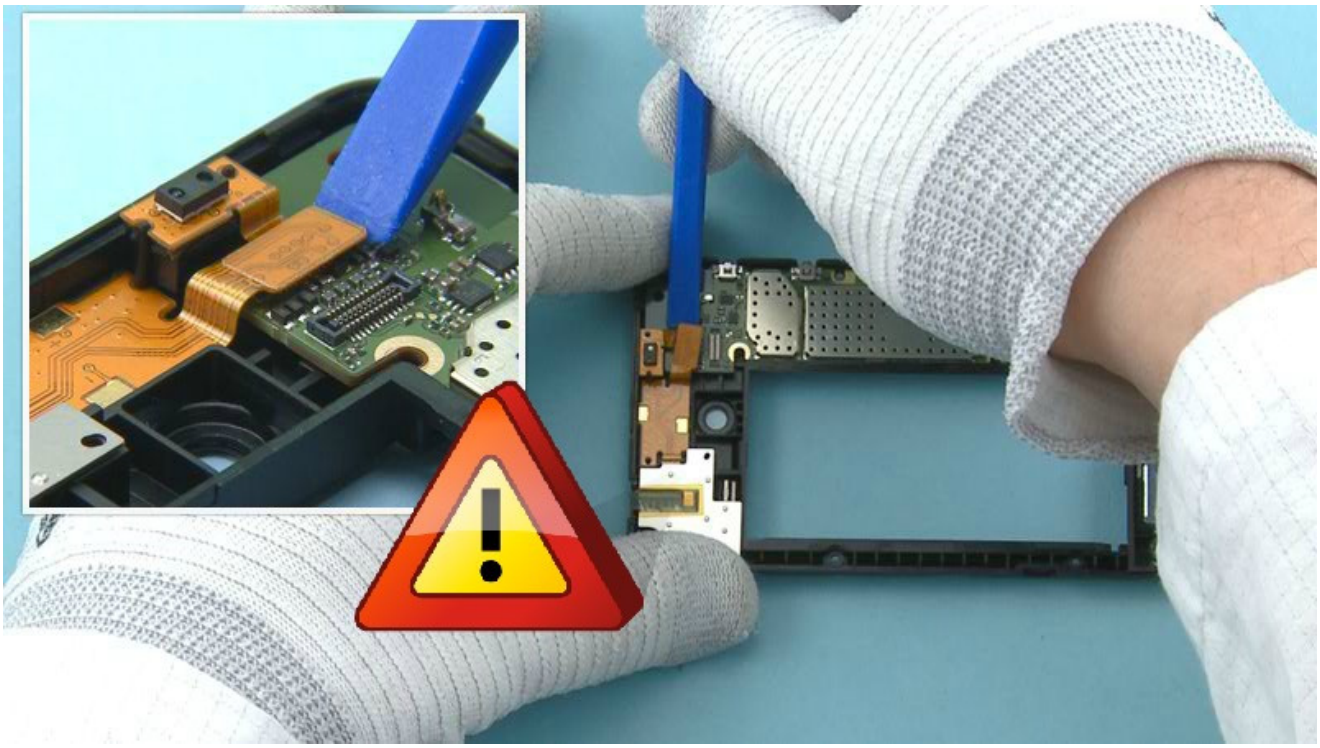


21) Separate the CAMERA from the CAMERA RUBBER.



22) Open the TOP FLEX connector with the SS-93 from the shown side.

Be careful not to damage the connector or any components nearby.

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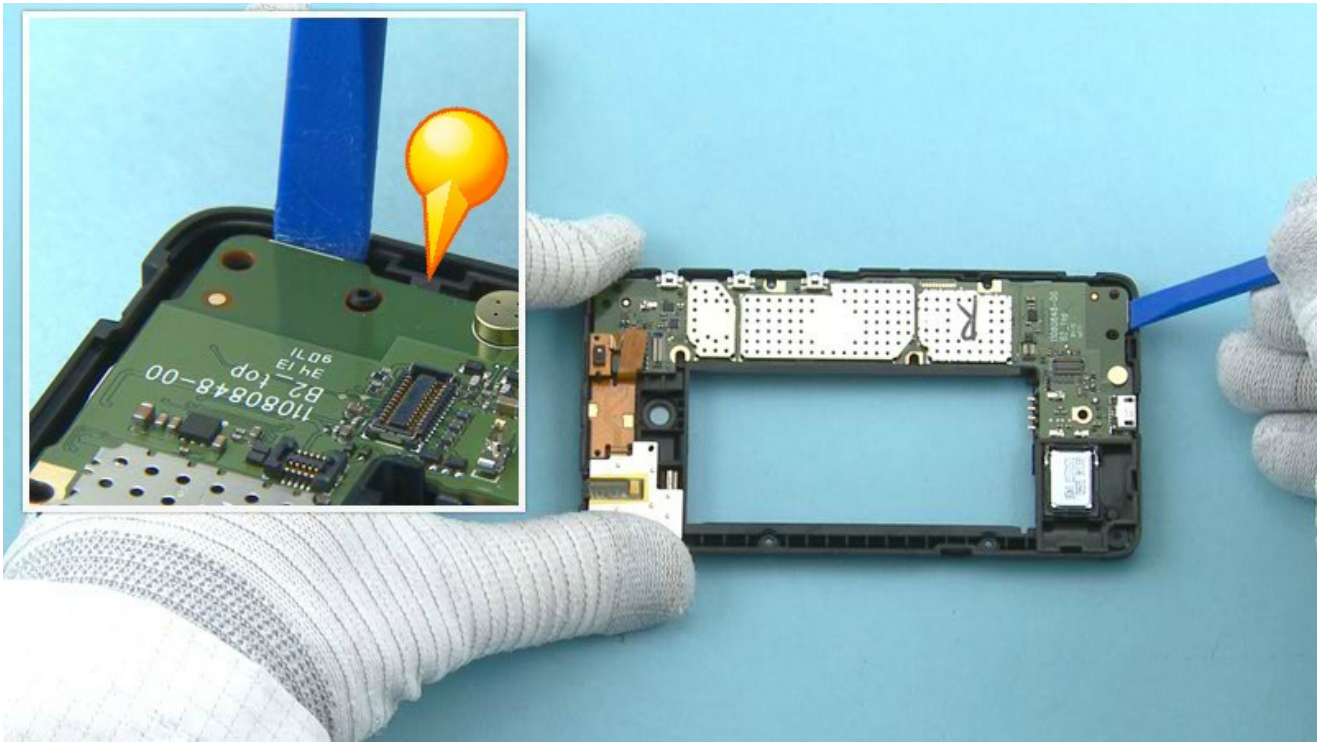
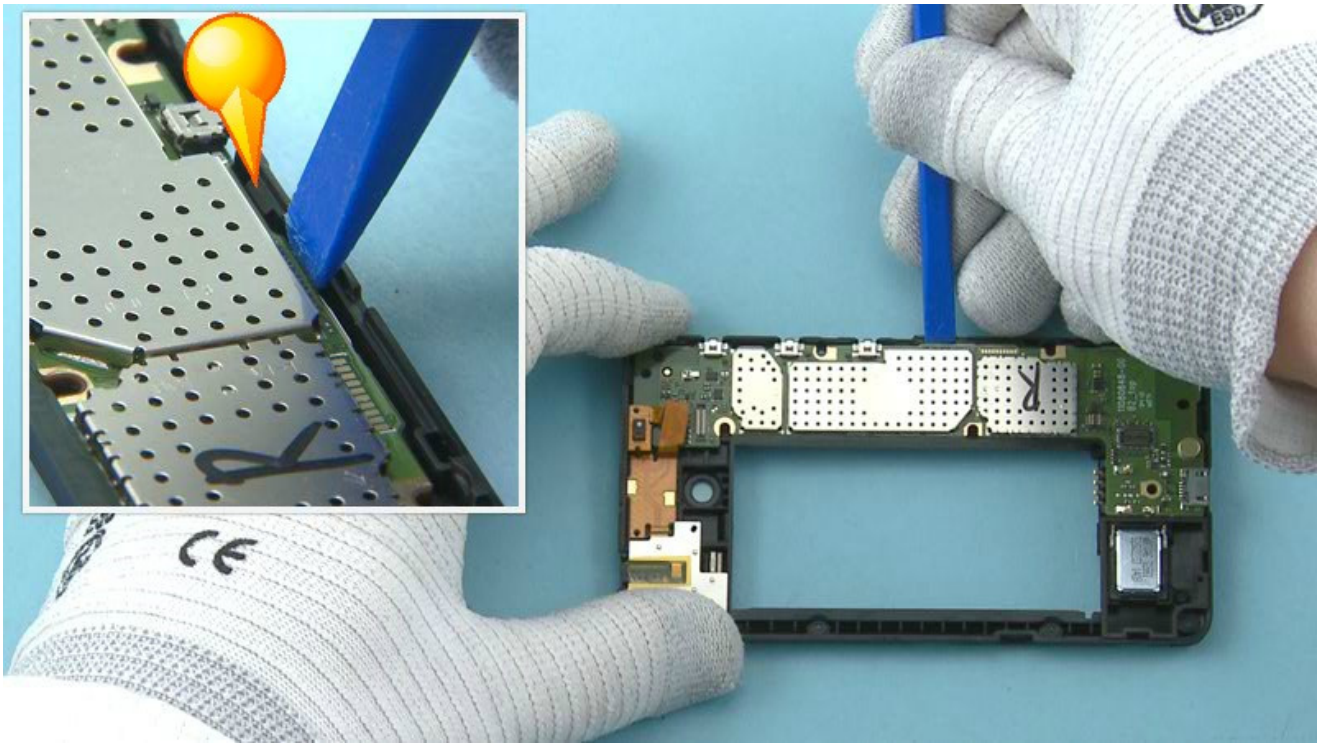


23) Insert the SS-93 between ENGINE BOARD and the D-COVER and carefully lever up the ENGINE BOARD so that the shown clip is released.



24) Release also the second clip holding the ENGINE BOARD.

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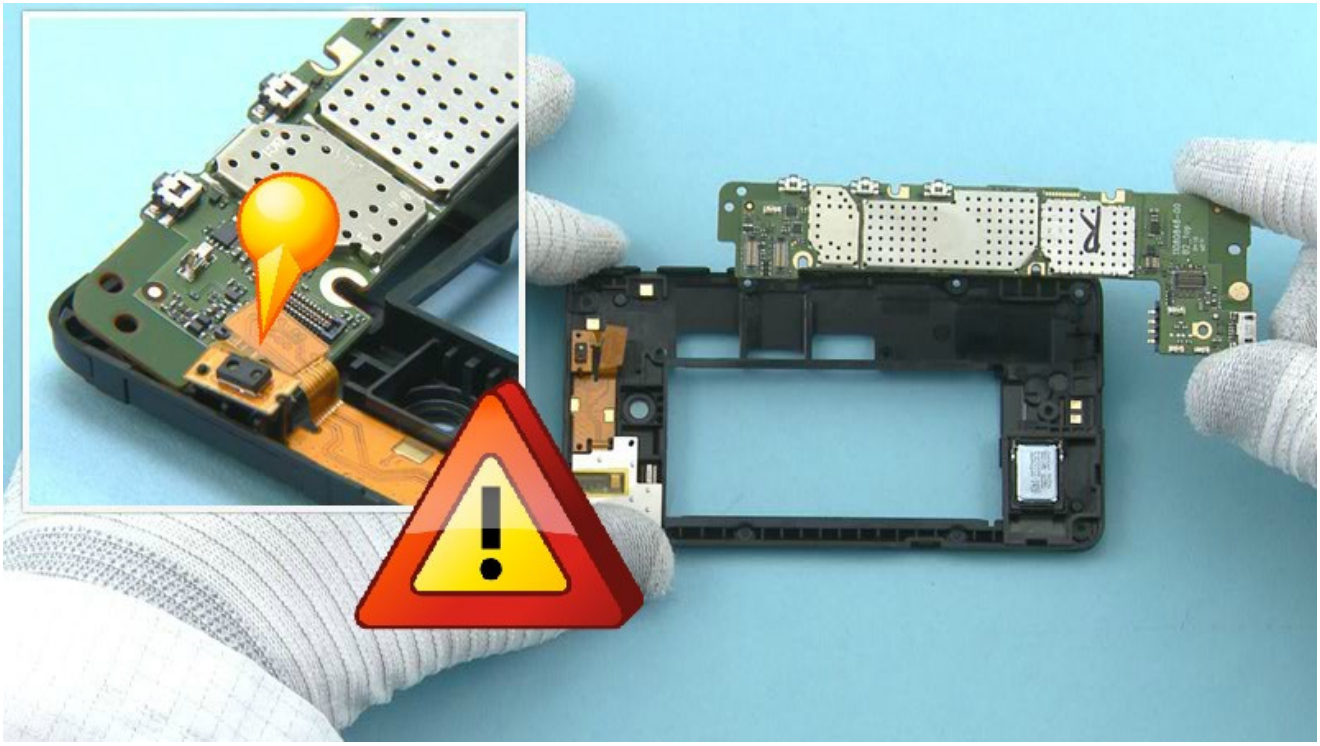
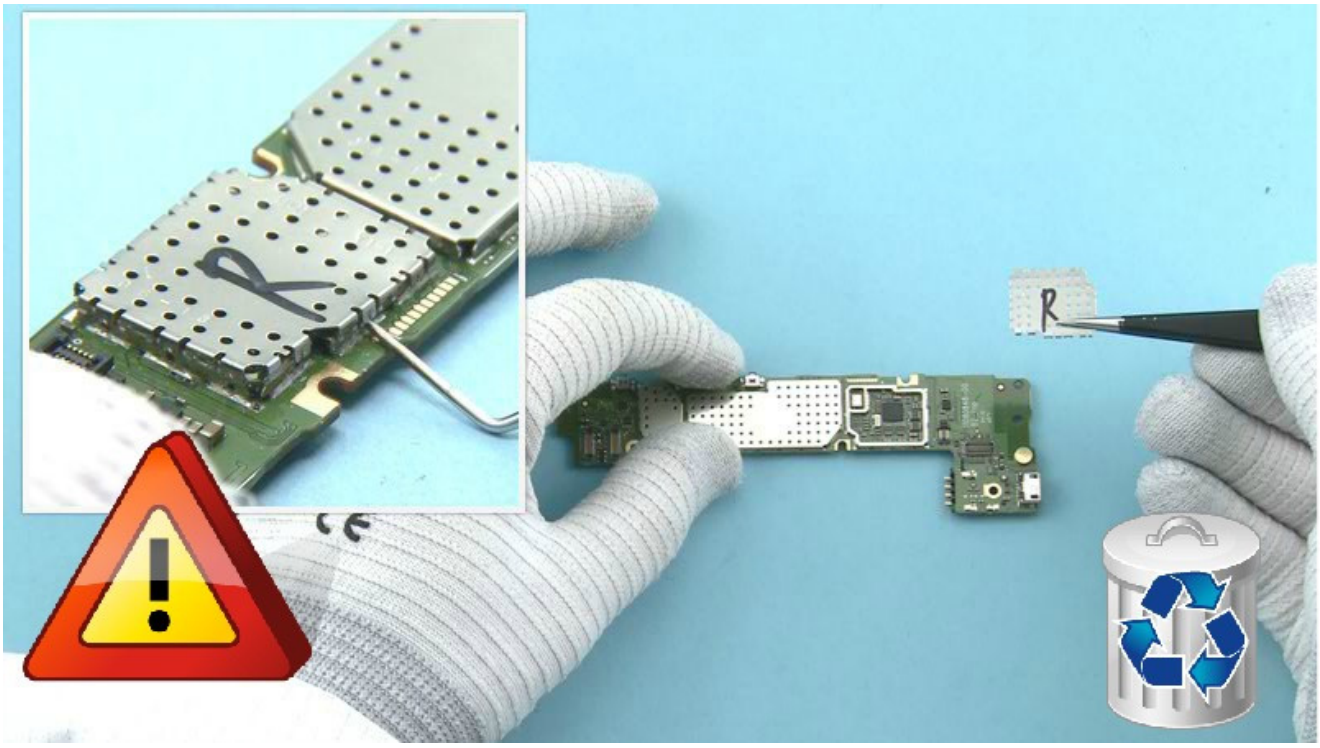


25) Remove the ENGINE BOARD.

When removing the ENGINE BOARD, be careful not to damage the TOP FLEX.



26) Use dental tool to lever out the PMU SHIELDING LID. Do not use the PMU SHIELDING LID again. Discard it.

Be careful not to damage the engine board with the sharp end of the dental tool.

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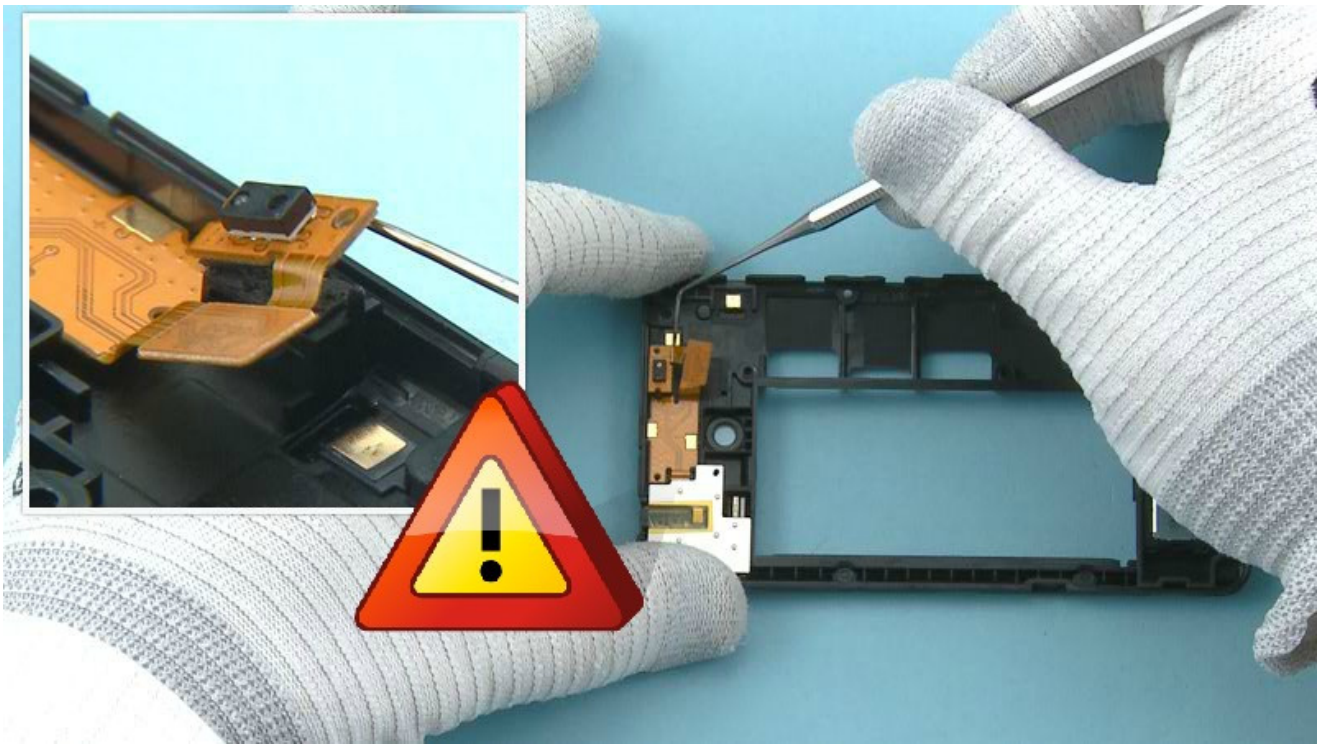
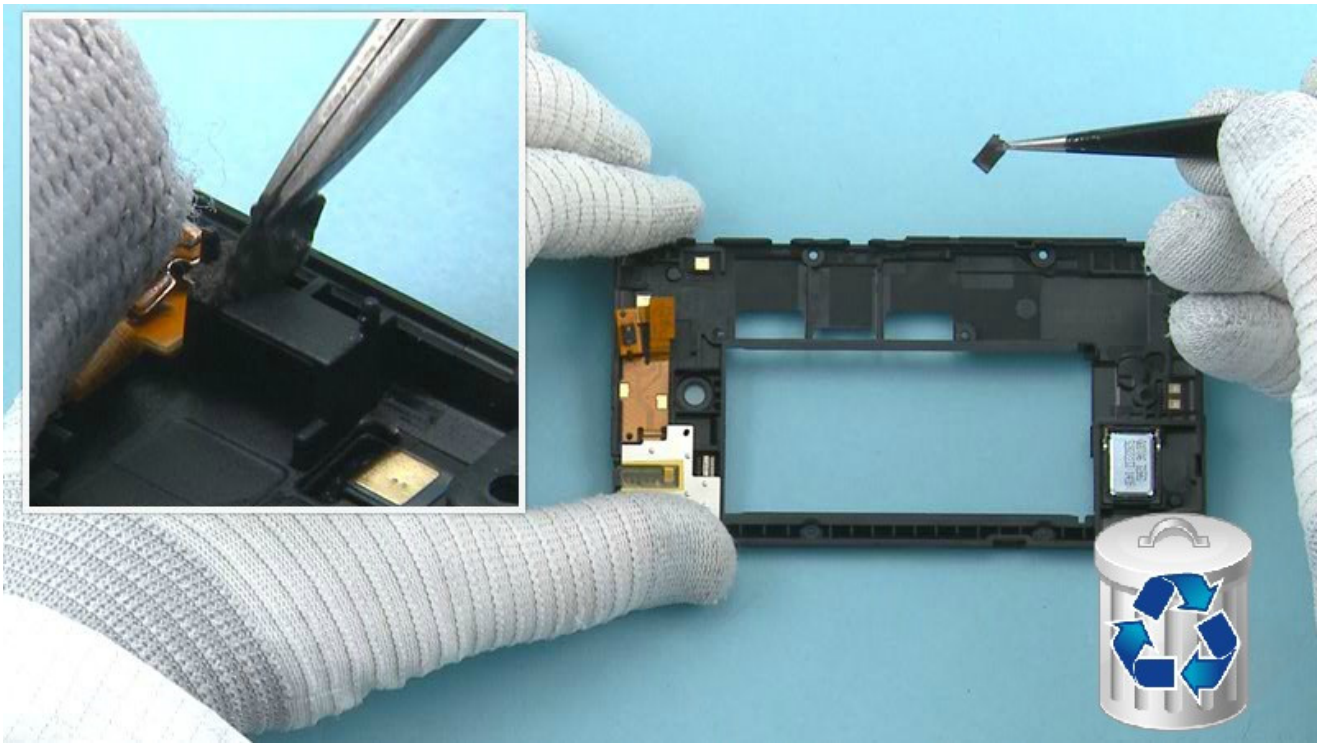


27) Use dental tool to release the shown part of the TOP FLEX.

Be careful not to damage the TOP FLEX.



28) Remove the SENSOR SUPPORT GASKET from the D-COVER. Do not use it again. Discard it.

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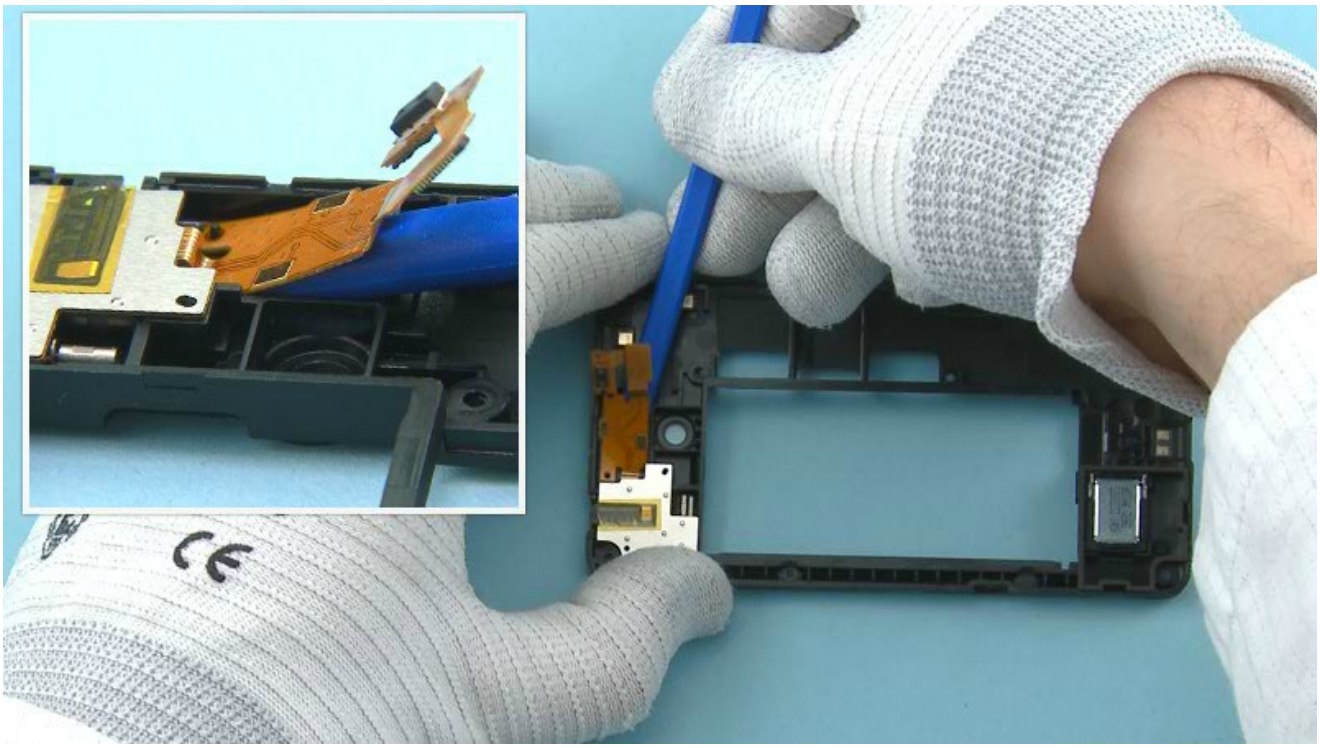
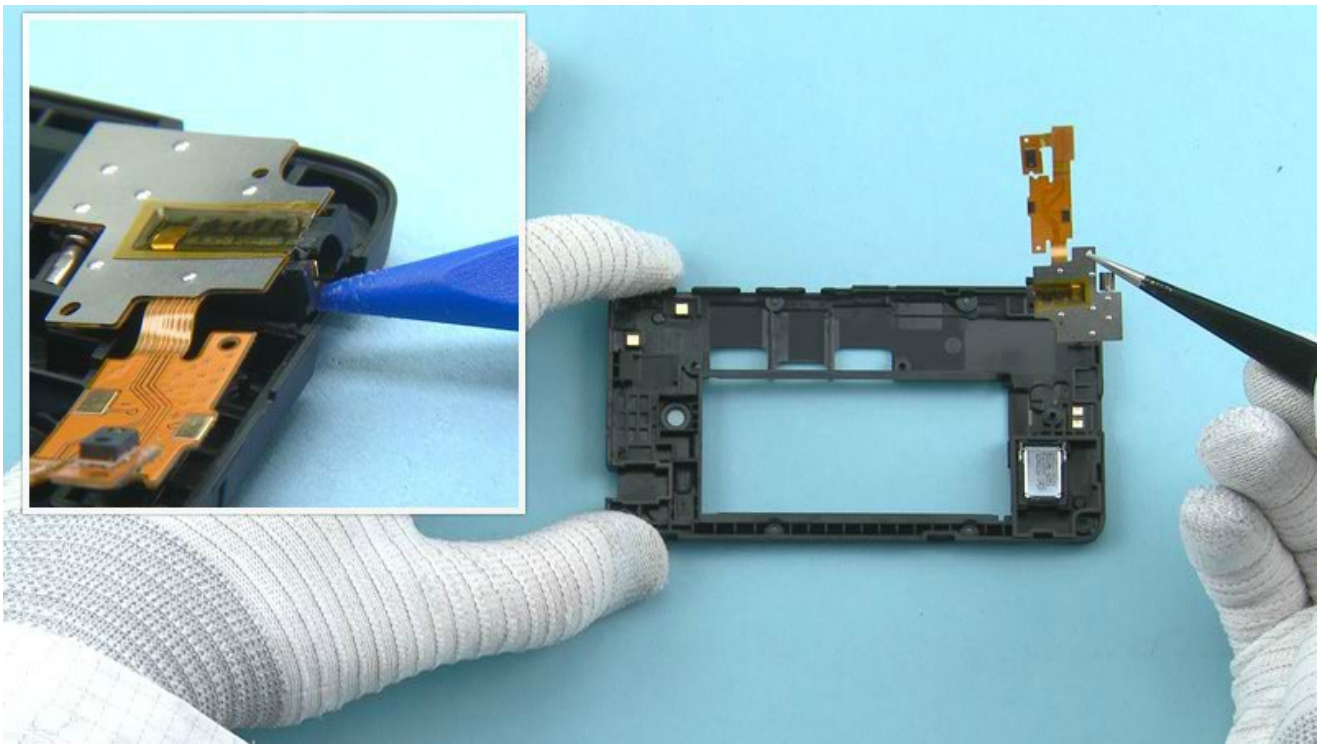


29) Use the SS-93 to release the shown part of the TOP FLEX.



30) Carefully lift up the AV jack part of the TOP FLEX with the sharp end of the SS-93. Remove the TOP FLEX.

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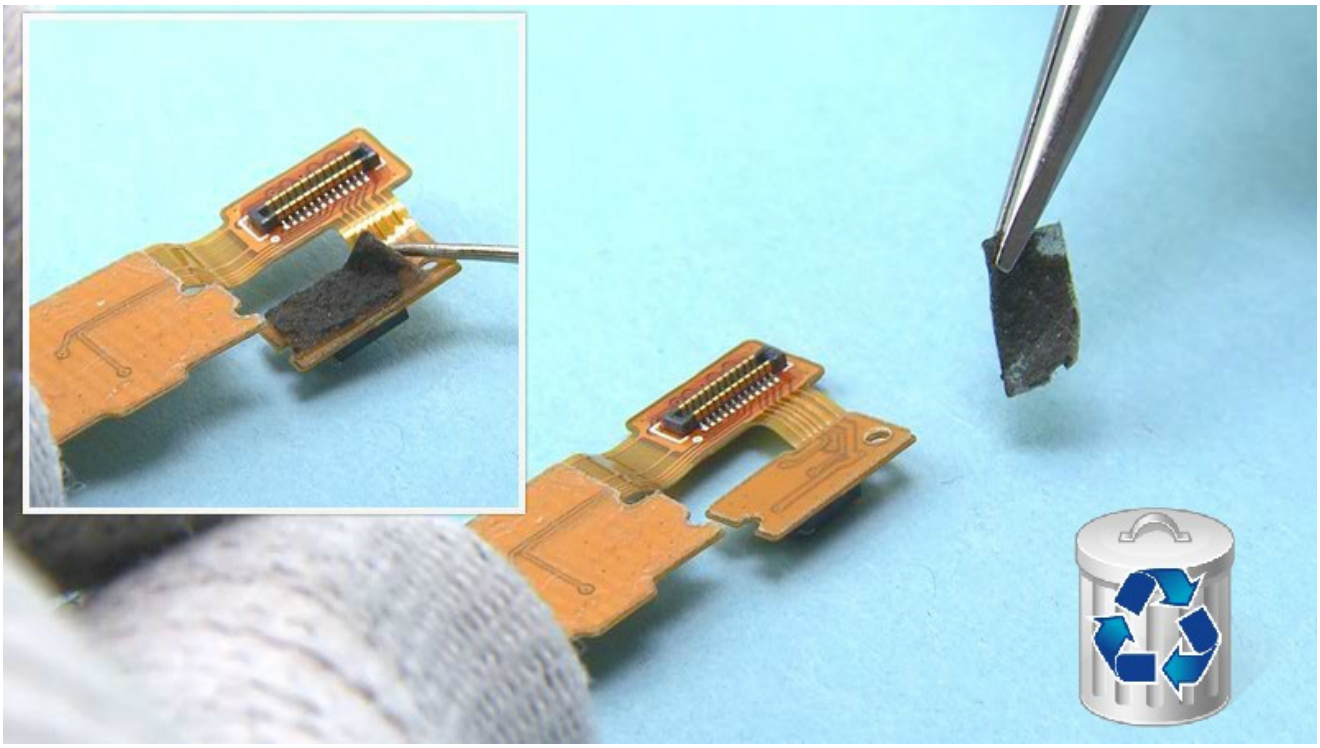
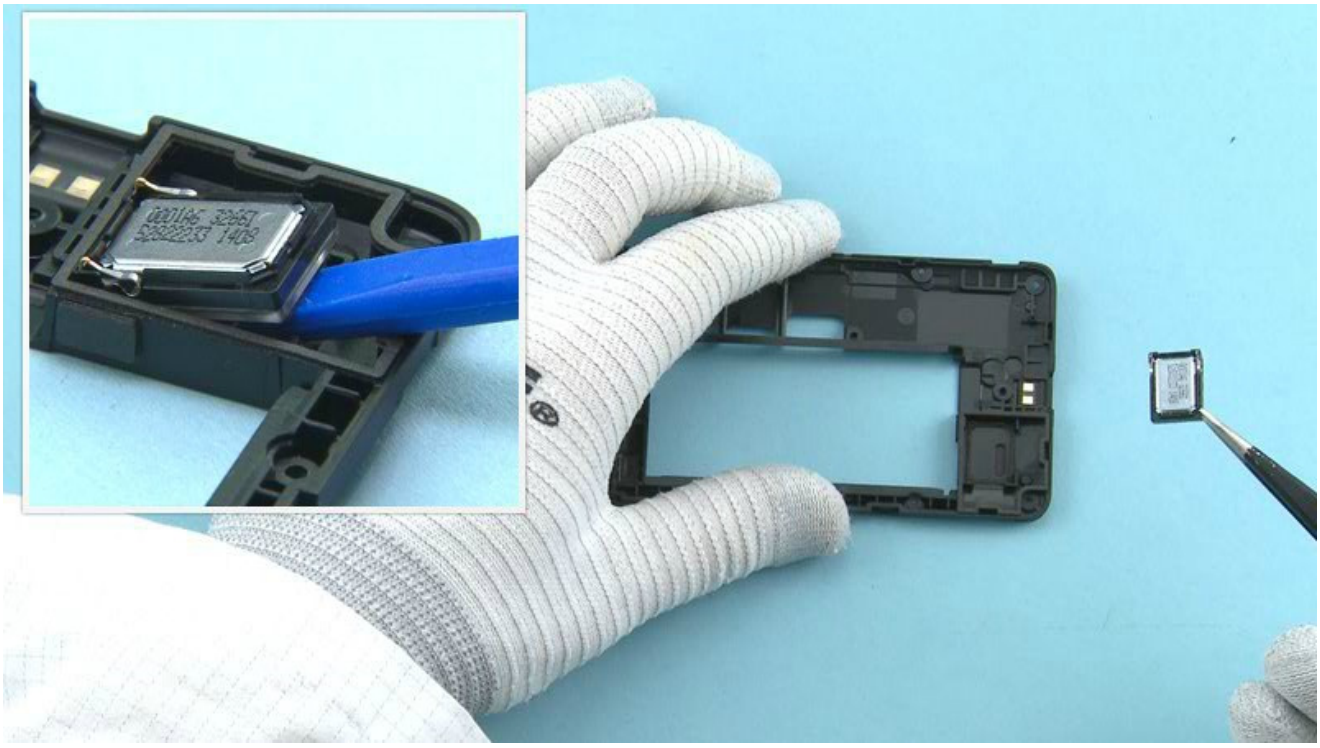


31) Remove the SENSOR SUPPORT GASKET remains from the TOP FLEX. Discard the SENSOR SUPPORT GASKET remains.



32) Push the SS-93 under the IHF SPEAKER as shown. Remove the IHF SPEAKER.

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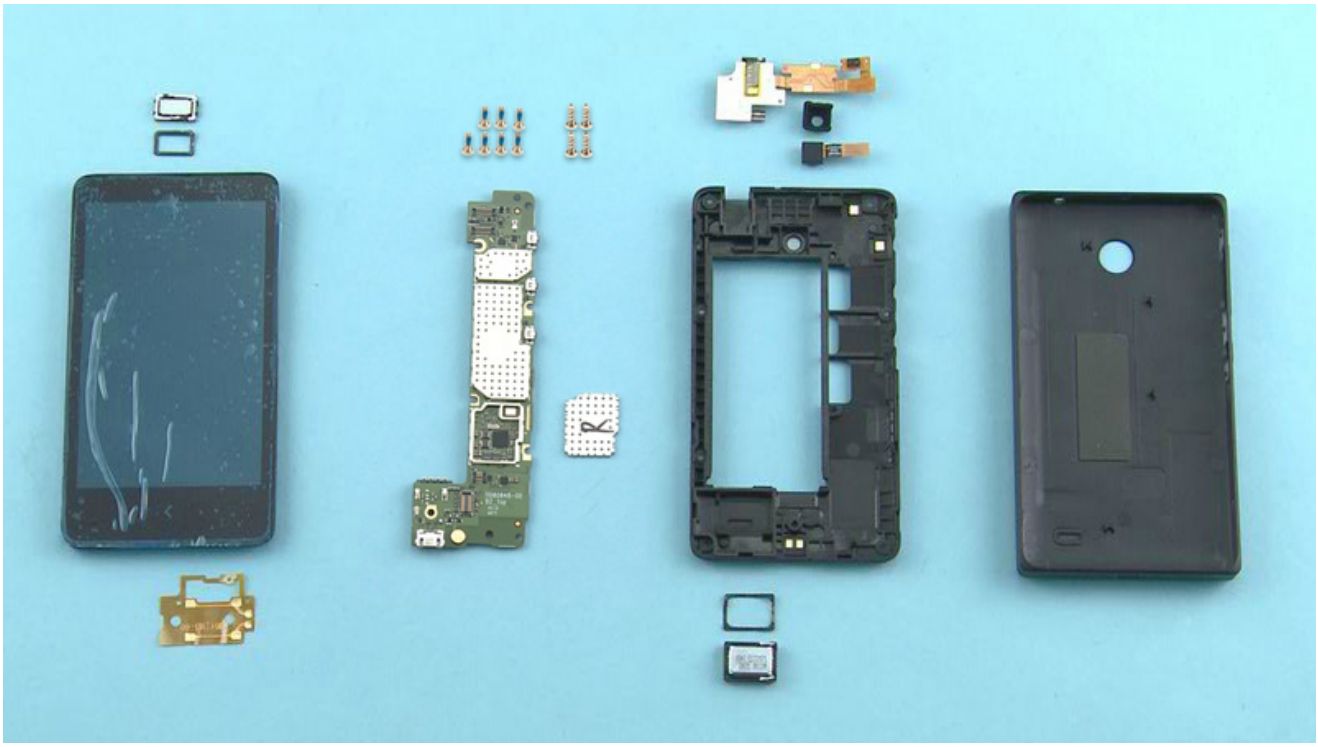
33) Use dental tool to remove the IHF SPEAKER GASKET. Do not use it again. Discard it.



34) The Nokia X Dual SIM disassembly procedure is complete.

-END OF DISASSEMBLY-

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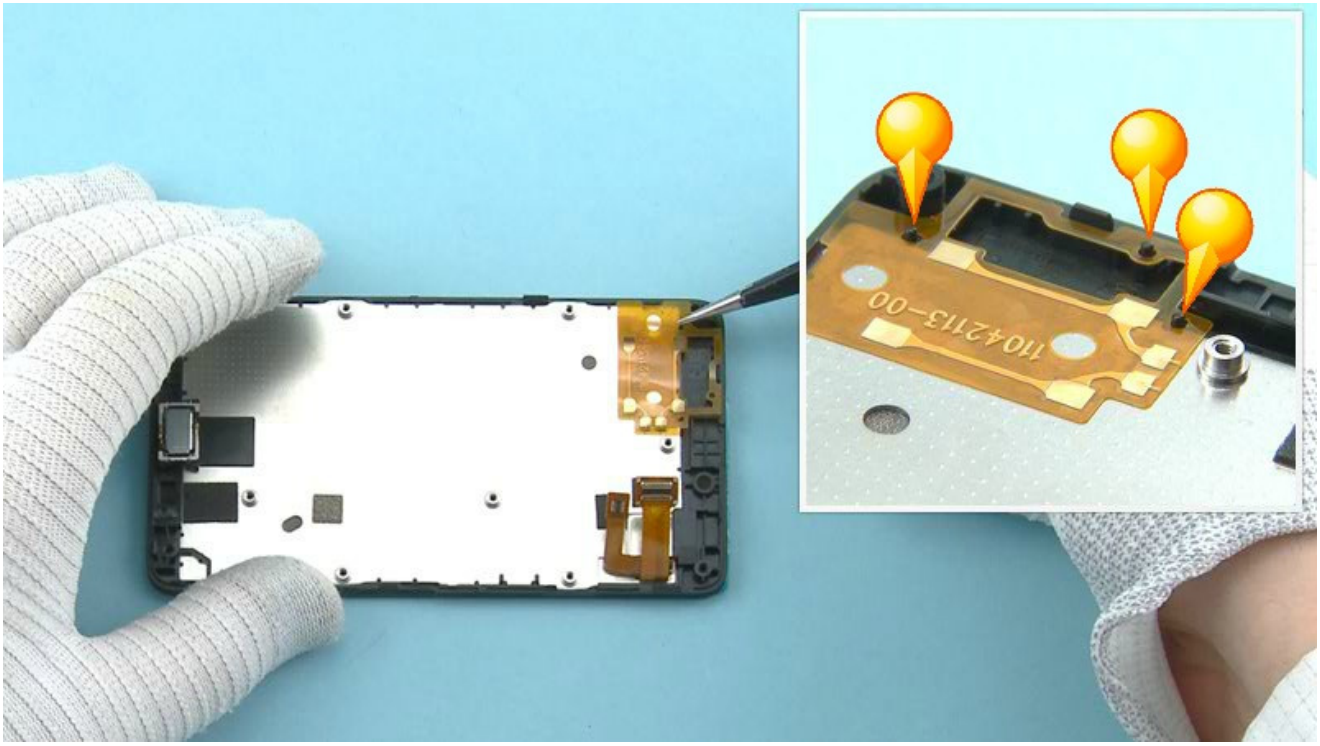
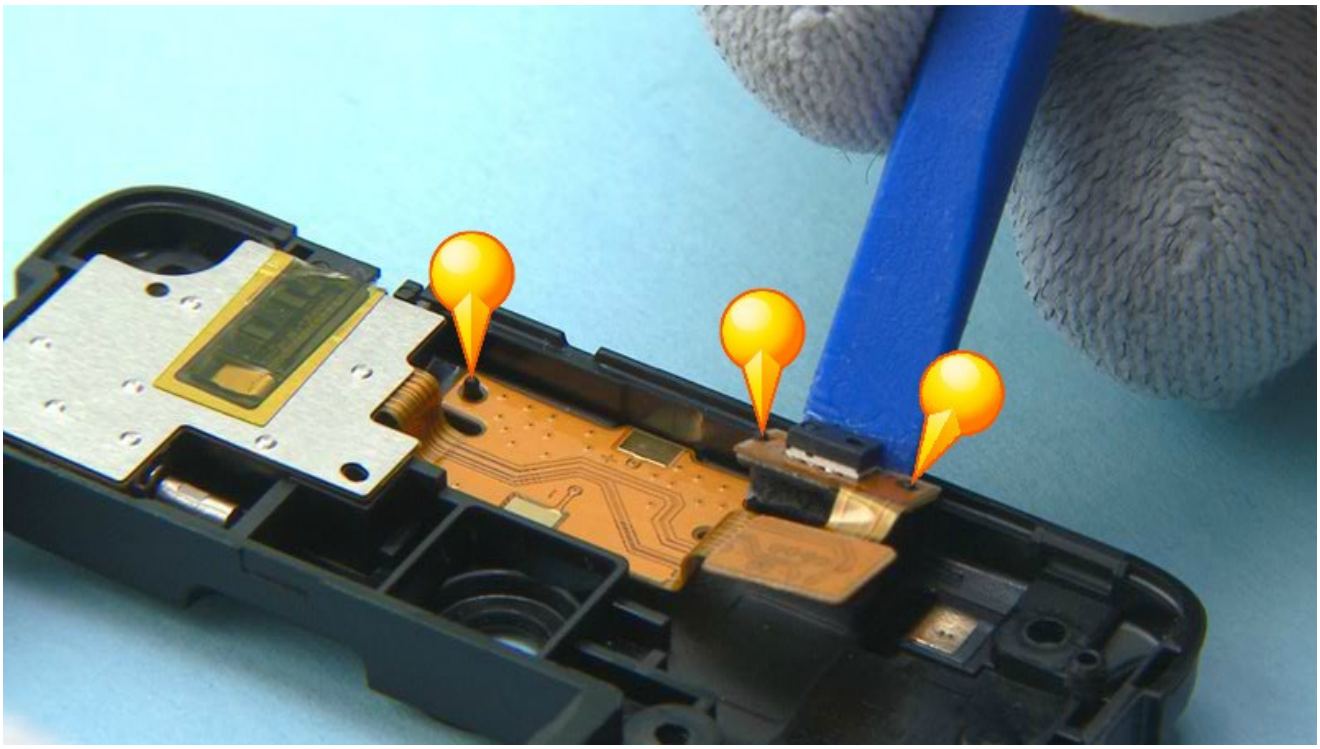



1) When placing the IHF FLEX make sure to align the three shown guiding pins with the IHF FLEX.



2) When placing the TOP FLEX make sure to align the three shown guiding pins with the TOP FLEX.

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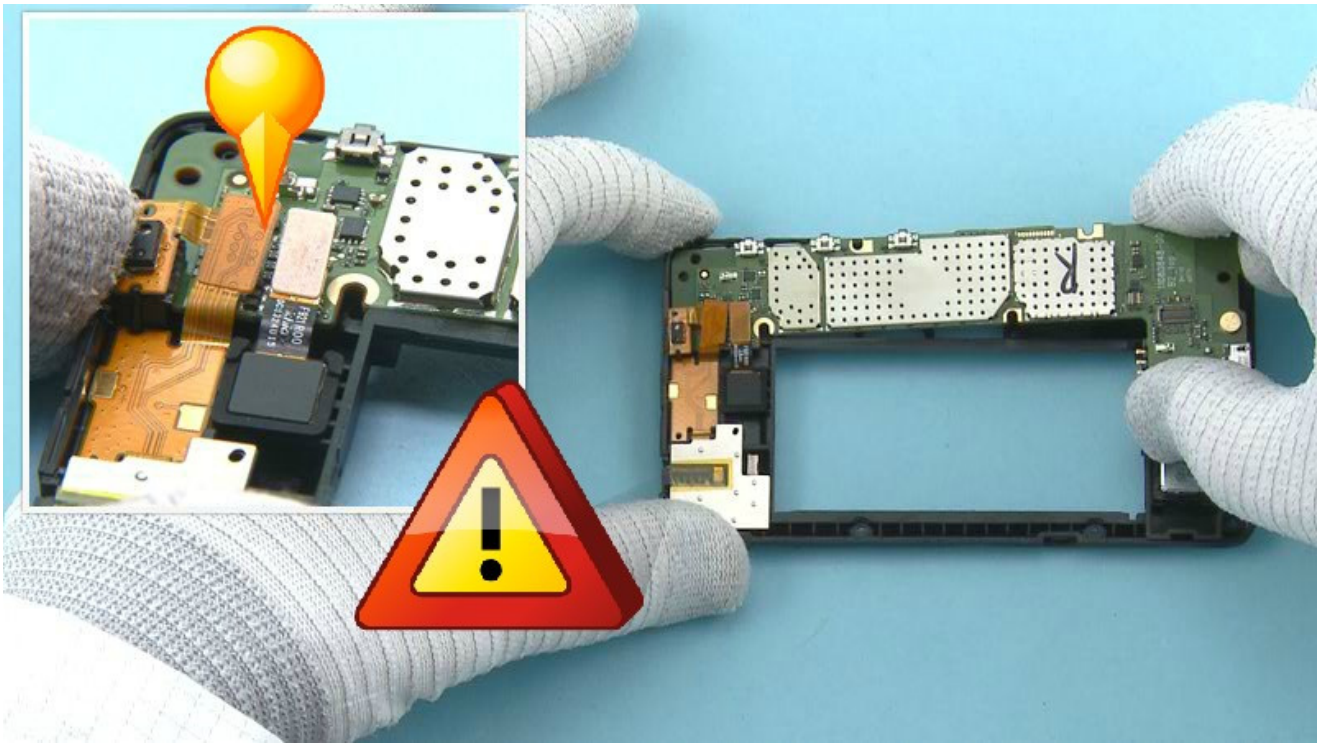
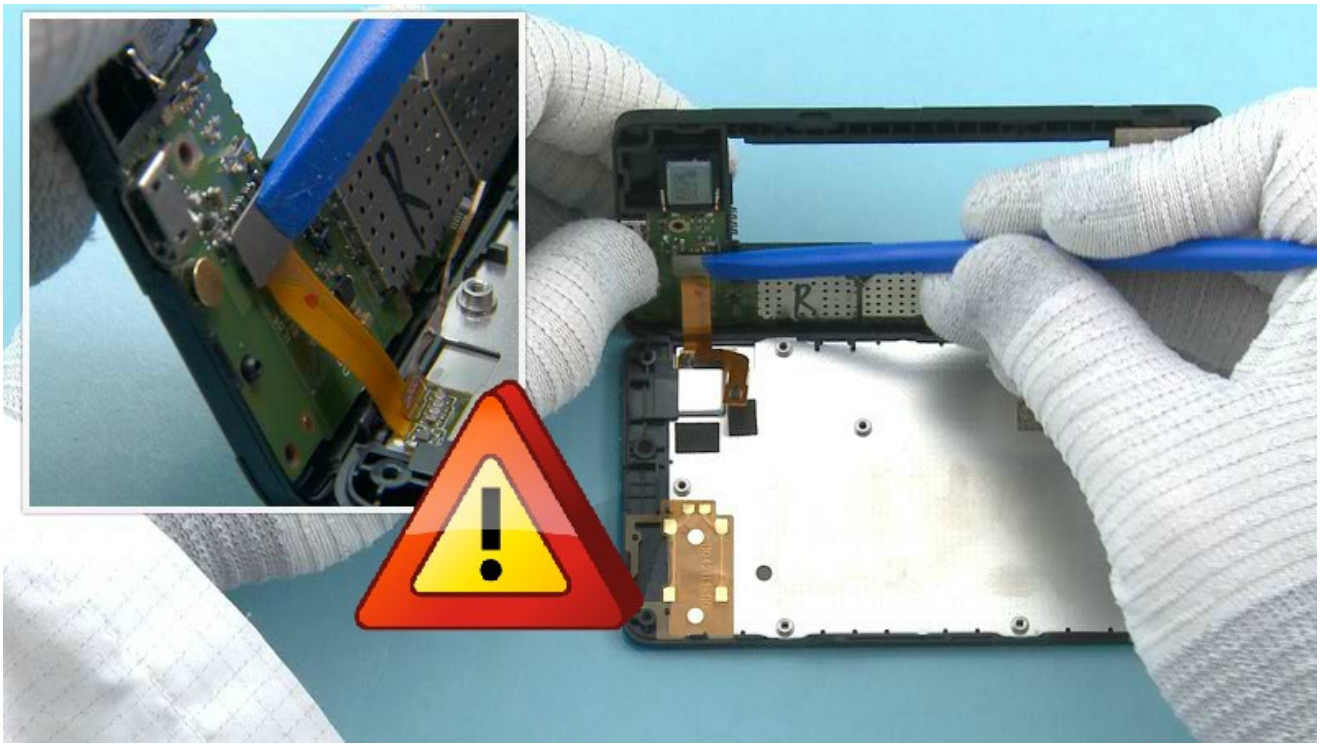


3) Be careful not to damage the TOP FLEX connector or the CAMERA connector when placing the ENGINE BOARD.



4) Hold the D-COVER as shown when connecting the DISPLAY connector.

Be careful not the damage the DISPLAY CONNECTOR or any components nearby.

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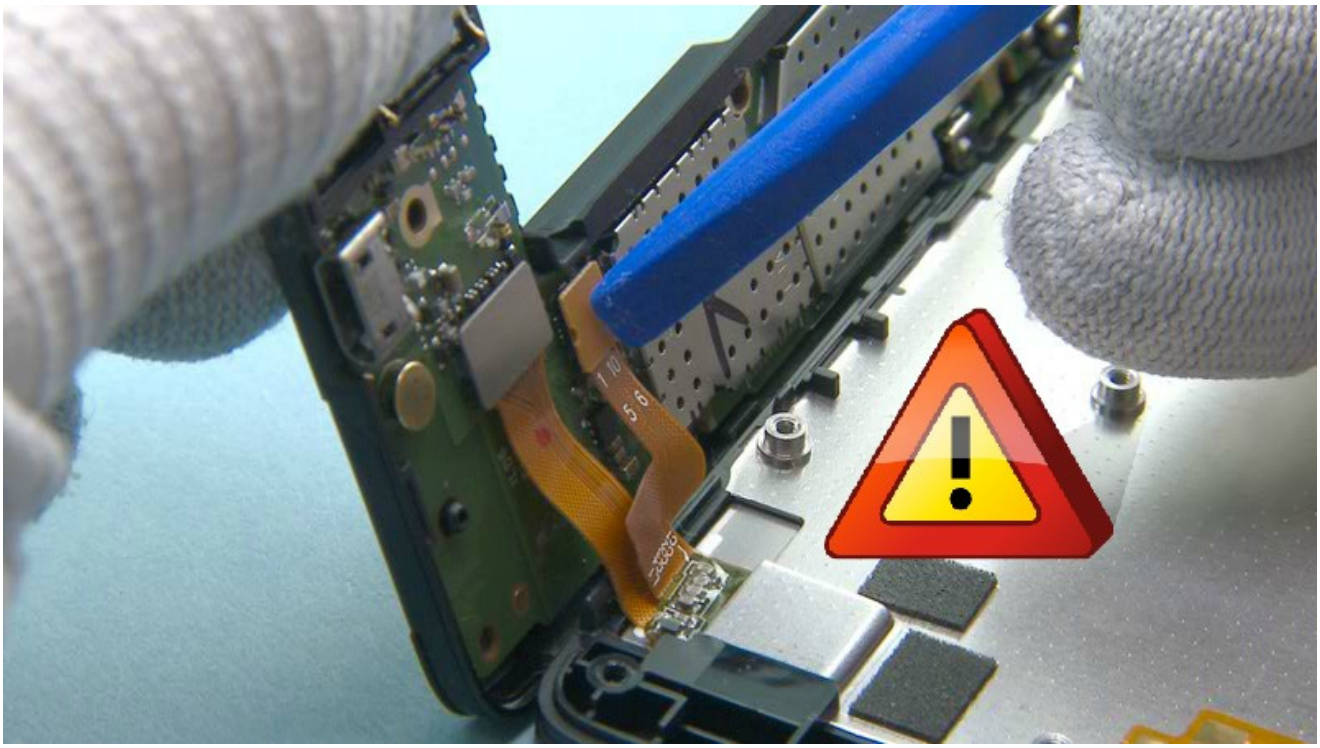
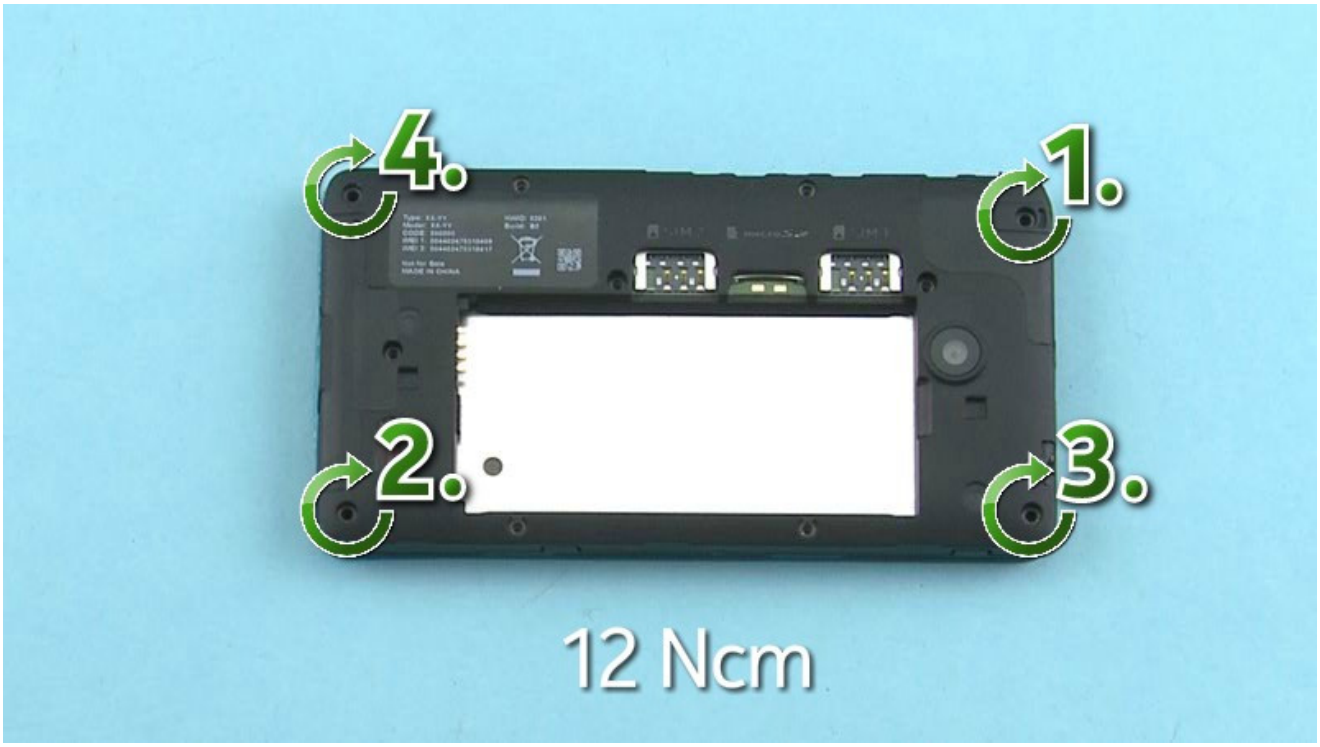


5) Hold the D-COVER as shown when connecting the TOUCH PANEL connector.

Be careful not the damage the TOUCH PANEL CONNECTOR or any components nearby.




6) Fasten the four Torx+ size 4 screws in the order shown to the torque of 12Ncm.

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7) Fasten the seven Torx+ size 4 screws in the order shown to the torque of 15Ncm.

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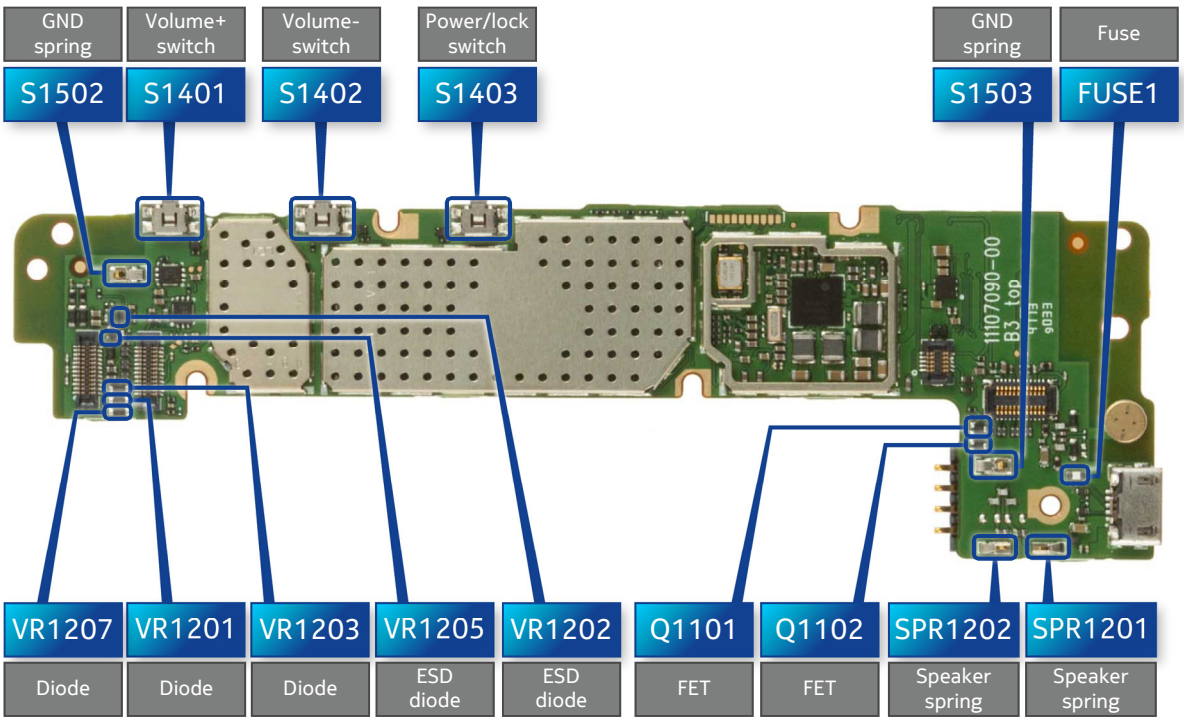
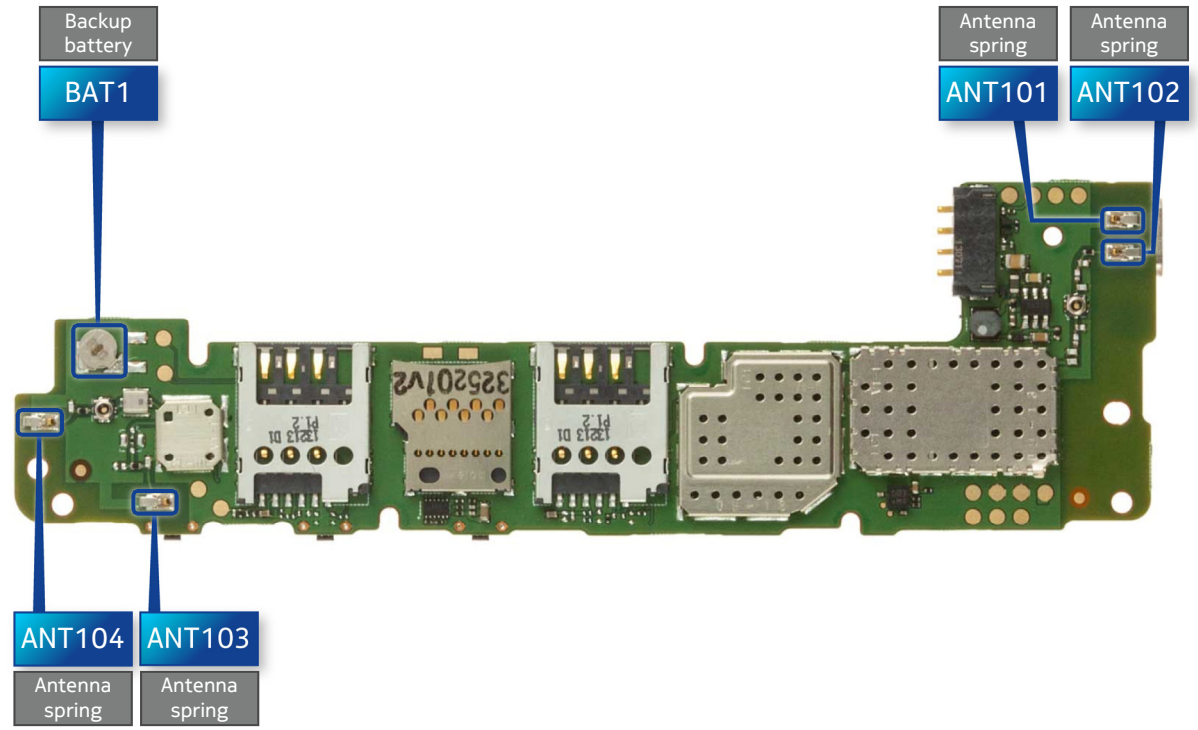
# Solder components



## TOP




## BOTTOM

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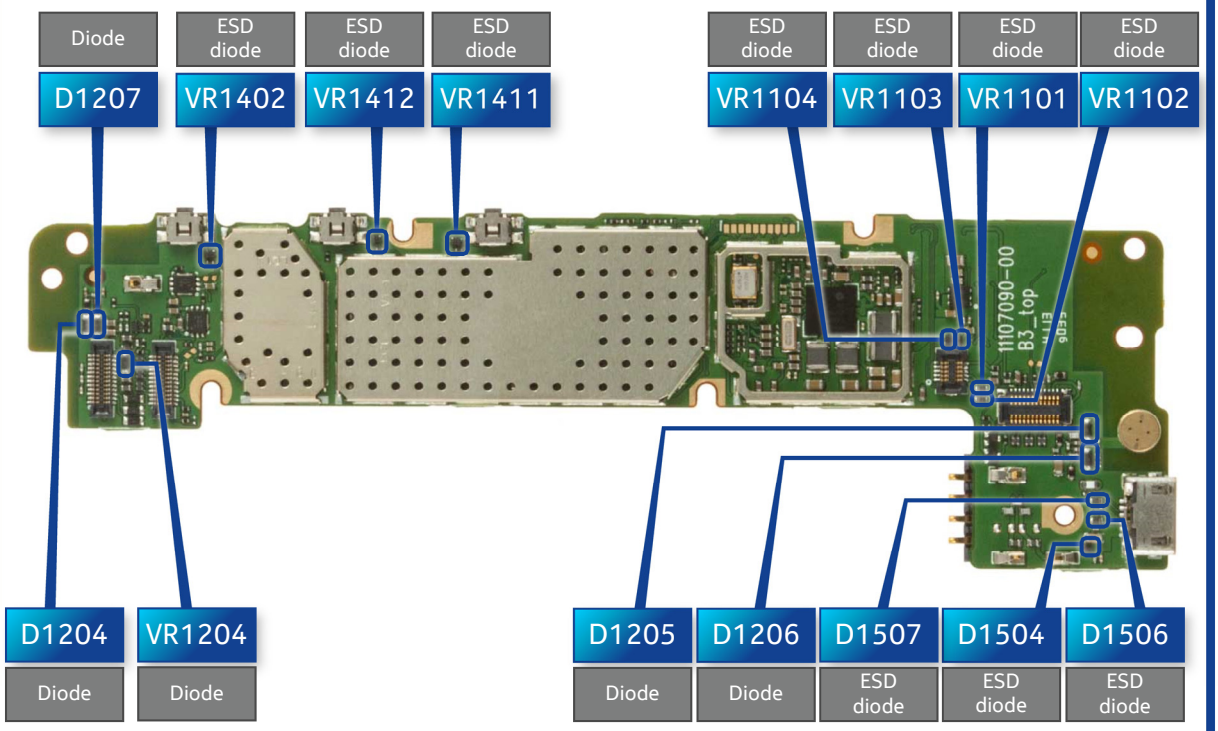
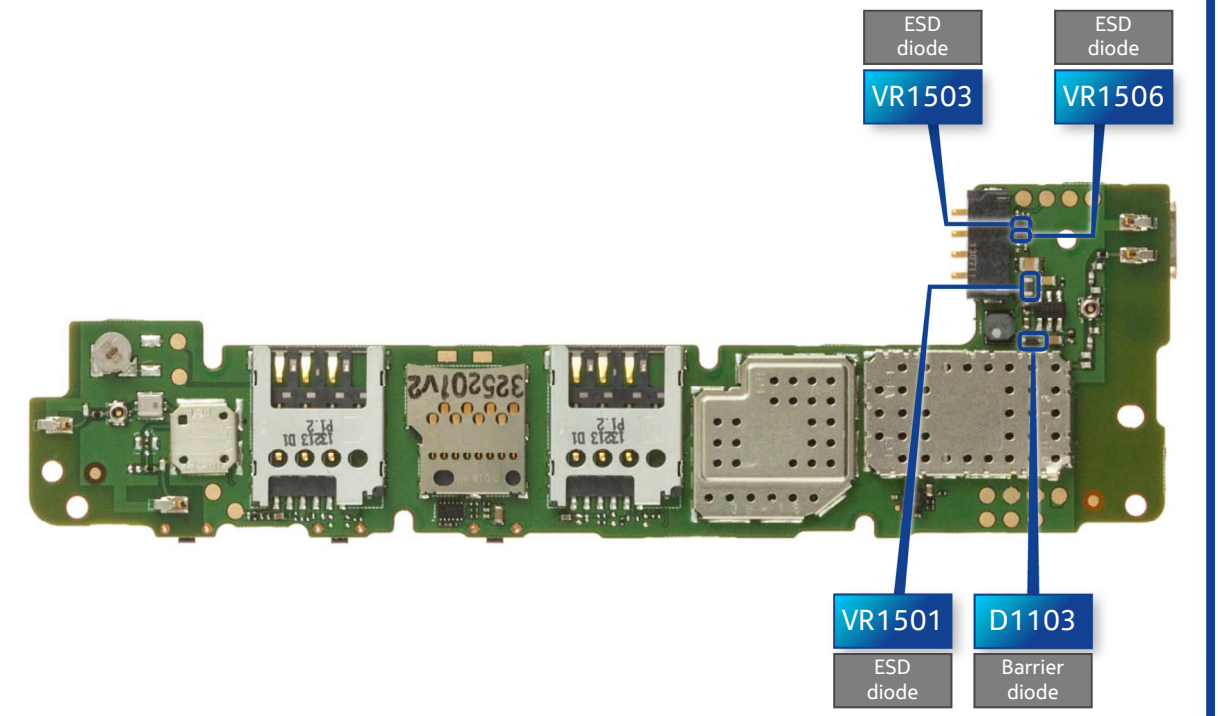
# TOP




# BOTTOM

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# Service devices



| | | |
|---|---|---|
| CA-101 Service cable | AC-20 Travel charger (Global)<br>AC-8C + CA-190CD (China) | Nokia Standard Toolkit (v2)<br><br>For more information, refer to the Service Bulletin (SB-011) on Nokia Online. Supplier or manufacturer contacts for tool re-order can be found in “Recommended service equipment” document on Nokia Online. |

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# Product controls and interfaces

1 — 3.5 mm AHJ connector
2 — Earpiece
3 — Ambient light & proximity sensor
4 — Touch screen
5 — Back key
6 — Microphone
7 — Micro-USB connector
8 — Camera
9 — Volume/Zoom + key
10 — Volume/Zoom - key
11 — Lock/Power key
12 — Loudspeaker
13 — Antenna area

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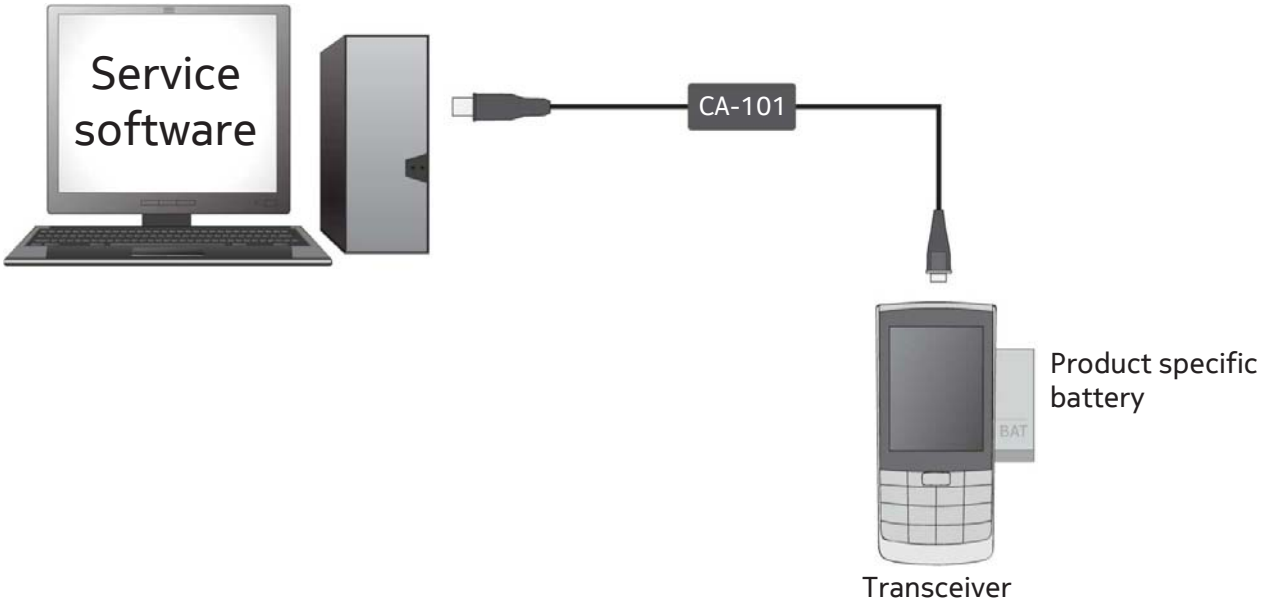
## Flashing concept

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